TOP SECRET

TS No. 185713 a

14 February 1964

DRAFT FOR REPRESENTATIVES CONSIDERATION

SUBJECT: IAP-64: Intelligence Assumptions for Planning -- Soviet Military Forces Through mid-1970

THE PROBLEM

To provide quantitative estimates and assumptions on the entire Soviet military establishment, including size and composition of major force components, numbers and characteristics of principal weapons and equipment, and manpower and costs, at mid-years through 1970.

CIA HISTORICAL REVIEW PROGRAM RELEASE IN FULL

FOREWORD

- 1. This document has been prepared to meet the specific needs of the DOD for quantitative intelligence projections on the Soviet armed forces, for use in long-term US military planning. It is not intended to serve as a substitute for the continuing series of National Intelligence Estimates on the various aspects of Soviet military programs and capabilities. Rather, it is designed solely to achieve the following objectives:
- a. For convenience of reference, to make available in a single, comprehensive document all the data on Soviet military forces likely to be required for long-term DOD planning.
- b. For consistency with DOD planning and programming cycles, to present data by mid-years, for a period extending six years into the future.
- c. For comparability with corresponding US and Western forces, to present the data in mission-oriented categories, as similar as possible to those employed in DOD planning.
- d. For an understanding of the varying degrees of uncertainty with which the many intelligence projections are made, to employ numerical ranges, alternatives, or other indications of uncertainty as appropriate.

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Organization

- 2. The document is organized along lines which the intelligence community has for some years found useful for describing the main capabilities of the Soviet military forces. This organization places in the same component all elements of the Soviet military establishment which would perform a given mission in the event of general war, and it de-emphasizes their administrative subordination. Thus, for example, strategic attack forces include units and weapons which would be employed primarily to deliver nuclear attacks against key land targets in North America and Eurasia, even though the pertinent missiles are subordinate to the Soviet Strategic Rocket Forces, the bombers to Long Range Aviation, and the missile submarines to the Soviet Navy. This method of treating Soviet forces is basically the same as that now being used by DOD in US military planning, though there are differences in detail.
- 3. The document is divided into a summary (not included in this moskup) and Eeven major sections as follows:
 - I. Strategic Attack Forces
 - II. Air and Missile Defense Forces
 - III. General Purpose Forces
 - IV. Command, General Support, and R&D
 - V. Nuclear Weapons Allocation
 - VI. Military Manpower
 - VII. Military Expenditures

Each of the sections on principal force components (Sections I-III) is introduced by a description of the subcomponents included, together with an indication of comparability to corresponding sections of the DOD Five-Year Force Structure and Financial Program. In general, each component and subcomponent is considered in three aspects: (a) strength by mid-year; (b) operational and supporting unit structures, including such factors as basing, equipment holdings, and manning; (c) characteristics and performance of

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weapons and equipment. Each major section also includes a discussion of the advanced weapons and equipment which might become available to operational units during the period to mid-1970.

Treatment of Uncertainty

- 4. Uncertainty is a matter of judgment, rarely measurable with precision. It is axiomatic that as we project into the future, our uncertainty tends to increase, but in some cases we are as uncertain as to past and present as we are with respect to the future. Uncertainty often arises from inadequacies in available information, but often -- especially for the more distant future -- it arises from awareness that the actual size of a force component or availability of a type of weapon will depend upon the interplay of many factors not wholly foreseeable.
- 5. Future Soviet military forces will be affected by such things as the technical capabilities of the USSR to develop and deploy new weapons, rates of attrition and obsolescence of older weapons, and ratios of cost vs. effectiveness. These considerations are in turn influenced by the continuing Soviet evaluation of strategic needs and by the priorities attached to the various military and non-military claimants on national resources. In the broadest sense, the controlling factors for the long term are basically political, having to do with the Soviet leaders' objectives and tactics within the USSR, in the Communist world, and in the world at large. Although there is considerable momentum in a large military establishment, and weapon system lead-times are a matter of years, the size and composition of the Soviet forces in 1970 will depend to a degree on decisions not yet made.
- 6. In this situation, we have found it necessary to place some arbitrary limits on the range of uncertainty in preparing these quantitative projections. First, in addition to the obvious assumption that there will be no general nuclear war between now and 1970, we have also assumed that no major limited war (such as the Korean War) or major East-West crisis of long duration will ensue to affect Soviet military priorities or to cause unusual drains on material. Second, and conversely, we assume that no

major arms control agreements will be reached, though we also assume that such limited measures as the atmospheric nuclear test ban and the ban on orbiting nuclear weapons will remain in effect. Third, we assume no Soviet technological breakthrough in any area which would suddenly and radically alter the strategic situation. Finally, we have assumed a continuation of recent broad trends in Soviet and Western political and military policies and programs. This means, for example, that we take for granted such things as a buildup of US strategic forces as now programmed and a gradual strengthening of NATO's conventional capabilities in Europe, that we anticipate prolonged Sino-Soviet bitterness but no final and irrevocable break, and that we look for continued Soviet efforts to make more resources available to nonmilitary programs.

7. In dealing with specifics, we have made no attempt in this document to quantify uncertainty uniformly throughout. Wherever feasible, we have presented figures on force strengths in terms of ranges within which we believe the actual quantity will probably fall. This is a subjective measure, but insofar as possible we mean by it that we have good confidence -- on the order of 75 percent -- that the actual number will be within the range shown. We do not mean our ranges to be so wide as to encompass figures within which we believe the actual quantity will almost certainly fall (i.e., have on the order of 90 percent confidence). Neither do we mean to imply that any number within the range is more likely than any other number. In cases where single values are presented, we have sought to keep the number of significant figures consistent with the degree of confidence which we attach to the estimate. In a few instances where clear options seem open to the Soviets, we have presented alternatives. The same general approach is employed for weapon system performance and for the dates of weapon availability.



- 8. Many of the figures included in this document have already appeared in National Intelligence Estimates.* Our criterion for including a figure in an NIE has generally been that it reflects reasonably substantial analysis of reasonably substantial evidence. Though the evidence itself may have been direct or indirect, we have felt justified in putting the result forward as an estimate. This criterion still applies. To meet the DOD's needs, however, we have included in this document a number of figures which in our judgment do not meet this test. These we have termed assumptions, by which we mean quantitative values which we recommend be taken for granted for planning purposes as the best we can provide at this time, in the absence of reasonably substantial evidence and analysis. In our review of existing NIE's in preparing this document, we have in fact downgraded some items to this category. Assumptions are identified as such in the document.**
- 9. There is a final uncertainty which we have been unable to treat in this document. It seems highly unlikely that all the high sides of the quantitative ranges here presented will in fact prove to be the case at any given time. The same is true of all the low sides. Depending on such factors as the emphasis on the several components, on weapons and other elements within components, and on the total resources the USSR allocates to military programs, one or another combination of high and low sidea is likely to be the case. At present, the state of our information and analysis does not in our judgment warrant an attempt to derive any most likely composition of the Soviet military forces within the ranges given. Exploration of the implications of alternative combinations of Soviet forces and weapons is a continuing function of the CIA/DIA Joint Analysis Group.

^{*}Some of the figures in the IAP are different from those in the most recent published NIE's. Any such changes reflect information or analysis subsequent to completion of the NIE.

**Contributors please identify those items which you recommend be considered by means of brackets /



Relevant Estimative Conclusions

- able on the several major components of the Soviet military establishment and their capabilities. These estimates describe the information available to intelligence and provide background as to the nature of recent trends. They elaborate our judgments as to future trends, the reasoning behind these judgments, and the degree of confidence with which they are held. Finally, taking account of the strategic context, they evaluate the broad capabilities of the Soviet military forces at present and in the future. The present document should be used only in conjunction with these estimates.
- 11. The most recent issues of this continuing series of NIE's are!
 - NIE 11-4-63: Soviet Military Capabilities and Policies, 1962-1967, 22 March 1963, TOP SECRET (Limited Distribution)
 - NIE 11-8-63: Soviet Capabilities for Strategic Attack, 18 October 1963, TOP SECRET (Limited Distribution)
 - Restricted Data
 Memorandum to Holders of NIE 11-3-62:
 Soviet Bloc Air and Missile Defense Capabilities
 Through mid-1967, 20 November 1963, TOP SECRET,
 (Limited Distribution)
 - NIE 11-14-63: Capabilities of the Soviet General Purpose Forces, 1963-1969, 8 January 1964, SECRET
 - NIE 11-1-62: The Soviet Space Program, 5 December 1962, SECRET
 - NIF 11 9-63: Soviet Capabilities and Intentions to Orbit Nuclear Weapons, 15 July 1963, SECRET, Restricted Data
 - NIE 11-2-63: The Soviet Atomic Energy Program, 2 Muly 1963, TOP SECRET Restricted Data (Limited Distribution)
 - NIE 11-10-63: Soviet Capebilities and Intentions with Respect to Chemical Warfare, 27 December 1963, SECRET



DRAFT IAP-64

I. STRATEGIC ATTACK FORCES

Definition

- l. We define the strategic attack forces of the USSR as basically consisting of those elements of the Soviet military establishment which employ medium and long-range, nuclear delivery systems, including ground-launched missiles with ranges of 600 n.m. or more, submarine-launched ballistic missiles, heavy and medium bombers and their associated air-to-surface missiles, and advanced delivery and supporting systems. Thus, we consider these forces to be largely composed of the forces of the Strategic Rocket Troops, Long Range Aviation and the ballistic missile portion of the Soviet submarine force. However, we also : list: Soviet cruise missile submarines which could be employed for nuclear delivery against land targets in addition to their primary mission of anti-ship attack.
- 2. The Soviet strategic attack forces, therefore, roughly equate to the DOD concept of the US strategic relatiatory forces. Although cruise missile submarines are listed to for completeness, their cost and manpower are charged to the general purpose forces because of their primary mission.

Note to Contributors

3. This major section is divided into force subcomponents as follows: ICBMs and MRBMs/IRBMs; submarine missile systems; and bombers and their associated air-to-surface missiles and bombs. Each force subcomponent is considered in three aspects, in the following order --

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- a. Numerical projection of the strength of the subcomponent by mid-years from mid-1961 through mid-1970;
- Description of unit structures, including basing, equipment holdings, and manning through the same time period;
- c. Characteristics and performance of weapon systems, including operational factors such as reliability, accuracy, and non-combat attrition through the same time period.

In addition, a subsection is included for discussion of possible advanced weapons systems which might appear in each of the force subcomponents before mid-1970 but which have not been estimated explicitly in existing NIE's. This subsection will include also a discussion of possible Soviet offensive uses of space.

component will be introduced with language as to general trends drawn from the appropriate NIE, together with a statement of the additional assumptions, if any, underlying the data presented. Contributions should contain paragraph references to existing NIE's and explicit statements of any additional assumptions made in arriving at data contributed. As necessary, individual tables may also be introduced with such explanatory language. In contributing to tables, please use brackets \(\subseteq \geq \) to identify those figures you recommend be considered assumptions rather than estimates, as per the FOREWORD.

IA la

SOVIET OPERATIONAL ICEM FORCES -TOTAL STRENGTHS BY SYSTEM BY YEAR

| | | | TOTAL STI | TOTAL STRENGTHS BY SYSTEM BY YEAR | SYSTEM BY | / YEAR | | | | |
|-----------------------------------|-------------------------|-------------------------|-------------------------|-----------------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| Total Numbers of Unit and Weapons | M1d- 1961 (Lo/H1) | Mid- 1962 (Lo/H1) | M1d- 1963 (Lo/H1) | Mid- 1964 (Lo/H1) | Mid- 1965 (Lo/Hi) | M1d- 1966 (Lo/H1) | M1d- 1967 (Lo/H1) | M1d- 1968 (Lo/H1) | M1d- 1969 (Lo/H1) | Mid- 1970 (Lo/Hi) |
| BM Complexes | | | | | | | | | | |

CBM Complexes

ICBM Systems
SS-6 Bns (Soft)
Launchers
Missiles
Aim Points

ICBM Systems
Aim Points

SS-7 Bns (Soft)
Launchers
Missiles
Aim Points
SS-7 Bns (Hard)

S-E-C-R-E-T

SS-7 Ens (Hard)
Launchers (silos)
Missiles
Aim Points

SS-7A Bns (Hard?) 2/ Launchers (silos?) Missiles Aim Points

SS-8 Bns (Soft)
Launchers
Missiles
Aim Points

I-3 Т-О-Р S-E-С-R-Е-Т

IA la. (conti.)

| / | | | |
|--|---|---|---------------------------------------|
| S-E-C | -R-E-T | | |
| SS-Small Bns (Hard Launchers (silos Missiles | SS-VL Bns (Soft)3/ Launchers Missiles Aim Points | SS-8 Bns (Hard) Launchers (silos) Missiles Aim Points | Total Numbers of Units and Weapons |
| _t/ | ` | Ü | M1d- 1961 (Lo/H1) |
| | | | M1d- 1962 (Lo/Hi) |
| | | | M1d- 1963 (Lo/H1) |
| | | | Mid- 1954 (Lo/H1) |
| | | | Mid- 1965 (Lo/Hi) |
| | | | M1d- 1966 (Lo/H1) |
| | | | Mid- 1967 (Lo/Hi) |
| | | | M1d- 1968 (Lo/Hi) |
| | | | Mid- 1969 (Lo/H1) |
| . ; | /- | | M1d- 1970 (Lo/H1) |
| -E-C-R- | F-T | | |

Test Range

Total Launchers Total Aiming Points

Hard Launchers (silos) Hard Aiming Points

Soft Launchers Hard Launchers Aiming Points

GRAND TOTAL LAUNCHERS

.

77-O-P S-E-C-R-E-T

SS-Small Bns (Hard) 4/
Launchers (silos)
Missiles
Aim Points

Deployed Soft Launchers Soft Aiming Points

IA la. (conti.)

Footnotes

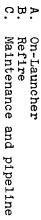
 $oldsymbol{1}$ Indicate the criteria used to define an individual aiming point.

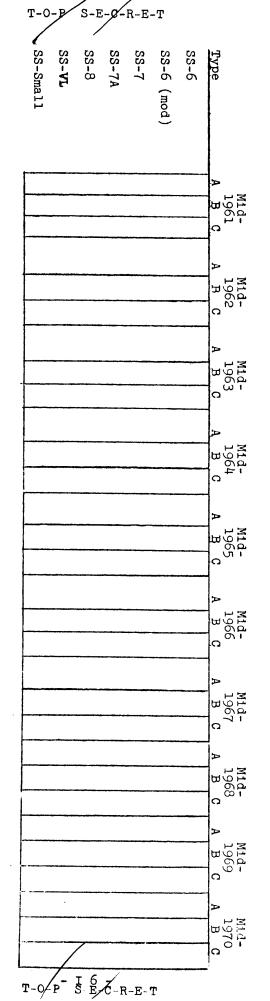
Improved SS-7; see NIE 11-8-63.
Very large ICBM; see NIE 11-8-63.

Somewhat smaller ICBM; see NIE 11-8-63.

- 1/5 -T-0-P S-E-0-R-E-T

SOVIET ICHM INVENTORY BY YEAR 1/IA 1b





八 In presenting mid-year figures, use ranges or other indicators of uncertainty as appropriate

TOTAL NUMBERS OF
UNITS AND WEAPONS
MR/IRBM Corps/Armies
MR/IRBM Divisions
MR/IRBM Regiments
SS-3 Bettalions (soft)
H Launchers 2/
H Missiles
H Aim Points 3/

H Missite.

Aim Points =

C SS-4 Battalions(soft)

Launchers 2

Missiles

Aim Points

Aim Points

NS-4 Battalions(hard)
Launchers (silos) Missiles Aim Points

SS-5 Battalions(soft)
Launchers 2/
Missiles Aim Points

SS-5 Eattalions(hard)
Launchers (silos)
Missiles Aim Points

SOVIET OPERATIONAL MRBM AND IRBM FORCES --1/

| M1d-4/ 19614/ W S E |
|---------------------------|
| M1d- 1962 V S E |
| Mid- 1963 W S E |
| Mid- 1964 |
| M1d- 1965 W S E |
| M1d- 1966 WW S E |
| M1d- 1967 W S E |
| M1d- 1968 N S E |
| M1d- 1969 W S E |
| Mid- 1970 |

IA lc (cont1.)

| SS-Follow-on Eattalions5 | TOTAL NUMBERS OF . UNITS AND WEAPONS |
|--------------------------|--------------------------------------|
| 5/ | M1d- 1961 W S E |
| | M1d- 1962 W S E |
| | Mid- 1963 W S E |
| | M1d- 1964 |
| | Mid- 1965 1985 |
| | Mid- 1966 Mid- |
| | Mid- 1967 S E |
| | Mid- 1968 |
| | M1d- 1969 |
| | M1d- 1970 W S E |

S-E-C-R-E-T Missiles Aim Points Launchers (silos)

Operational
Soft Launch Sites
Soft Aiming Points

Total Launch Sites Total Aiming Points Hard Sites (silos) Hard Aiming Points

Test Range
Soft Launch Sites
Hard Sites (silos)
Aiming Points

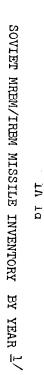
GRAND TOTAL LAUNCH SITES

Three general geographic groupings of Soviet MR/IRBM's exist: Western, Southern and Far Eastern table as W, S, and E respectively.

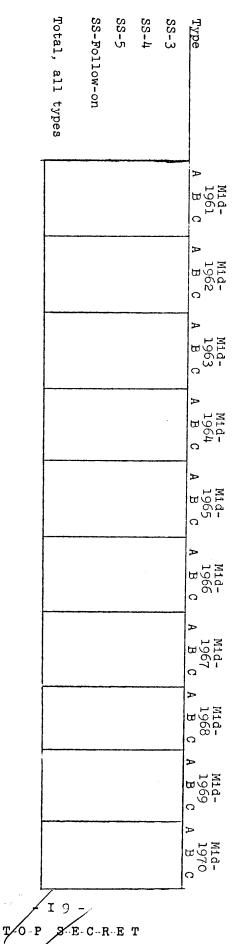
Assuming 8 launchers per "soft" battalion and one launcher per launch site Indicate the criteria used to define an individual aiming point In presenting mid-year figures, use ranges or other indications of uncertainty as appropriate See NIE 11-8-63. Hard deployment assumed, but could be mobile They are noted in this

- I 8 -

T-0 P S-E C-R-E-T



On-Launcher Refire Maintenance, pipeline, training reserve



In presenting mid-year figures, use ranges or other indicators of uncertainty as appropriate.

IA 2a

SOVIET OPERATIONAL ICEM MREM IREM. FORCES -- PERSONNEL AND MISSILES PER UNIT

| MRBM/IRBM Regiment (not counted above) MRBM/IRBM Division (not counted above) | SS-3 Bn. (soft) SS-4 Bn. (soft) SS-4 Bn. (hard) SS-5 Bn. (soft) SS-5 B. (hard) SS-Follow-on Bn (hard) | COUNTED (not counted above) | SS-6 Bn (soft) SS-7 Bn (soft) SS-7 Bn (hard) F SS-7A Bn (hard) F SS-8 Bn (soft) C SS-VL Bn (soft) F SS-Small Bn (hard) F SS-Small Bn (hard) | ICBMCUn1ts |
|---|---|-----------------------------|---|--|
| | | | | Operational Personnel |
| | | | | Support Personnel |
| | | | | Total Personnel |
| | | | | Launchers |
| | | | | On- Launcher Missiles |
| | | | | Refire Missiles |
| | | | | Maintenance, Pipeline & Training Missiles |
| | TIG | - I 10 -P S-E-9- | <i></i> ' | Total Missiles |

SOVIET ICEM/MRBM/IRBM SYSTEMS --- CHARACTERISTICS AND PERFORMANCE

Guidance
CEP (n.m.) (initial)
(improved/year)

Nosecone Weight 1/
Nosecone Radar Cross Section 1/
Warhead Weight 1/
Warhead Weight 1/
Warhead Weight 1/
Harhead Weight 1/
Harh

Propellant
Ready Missile Rate (initial)
(improved/year)
Reliability on Launcher (initial)
(improved/year)

Configuration

Reliability in Flight (initial (improved/year)

Overall Reliability (initial) (improved/year

I-11 T-Ø-P S-E-C-R-E-T

IA 3e (conti.)

MREMS-IRBMS SS-5 SS-FOILOW-on

Reaction time from Readiness Condition 4.
3.
2.
1. Percent off within 15 minutes
After Firing Time
WiWithin 30 minutes
Within 60 minutes

Hold time Condition 1
Refire time

 $\frac{1}{2}$ Hardness of Hard Sites $\frac{1}{2}$

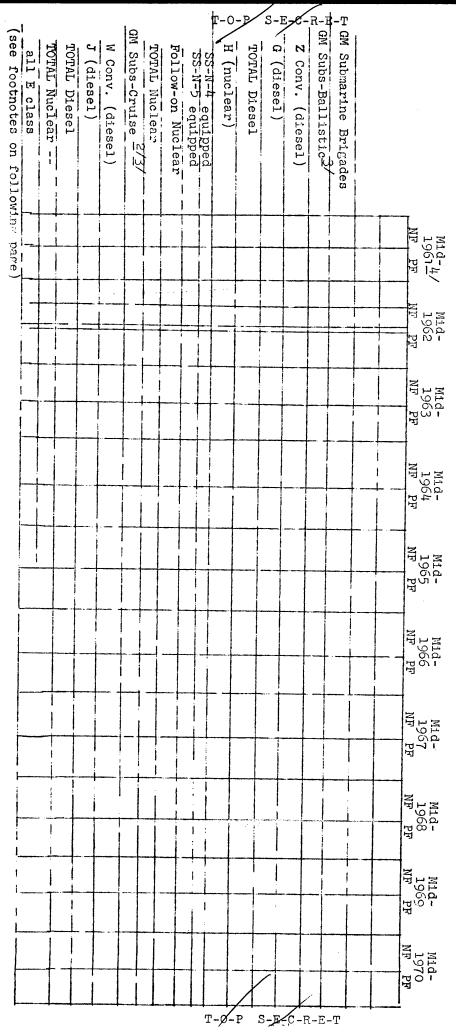
Define terms and discuss margins of uncertainty.

SOVIET ICBM/MRBM/IRBM SYSTEMS::7-3/ALTERNATIVE NUCLEAR WARHEADS 17-3/

| | | | | Т- | 0-1 | S- | -Е- е | -R-E | -T | | | | |
|--|--------------|------|------|-------------------|----------------|------------|---|--|---------|-----------|------|-------------------|-------------------------------|
| 1/ Missiles could be warheads become averaged. For the property of the marked property of the marked property ordinarily about contributors should be warhead at the marked property ordinarily about contributors should be warked by the marked property ordinarily about contributors should be warked by the marked by the marke | SS-Follow-on | 88-5 | SS-4 | MRBM's and IRBM's | SS-Small | SS-VL | ss-8(h) | SS-7A SS-8(s) | SS-7(h) | SS-7(s) | SS-6 | ICBM's | WEAPON SYSTEM |
| Missiles could be retrofitted with new warheads at the rate of % of the force per year beginning I warheads become available. New missiles entering inventory after new warheads become available would new warhead. For total numbers of warheads available through the period, see Section V. Decoys, jammers, other penetration aids and warhead shielding could be incorporated at any time at some nuclear warhead weight which could be carried within this total nosecone weight. Normal re-entry contributors should select as many alternative warheads as recessory to the could be carried within the state of the contributors should select as many alternative warheads as recessory to the contributors. | | | | | | | | | | - torrowa | | | METRIF — |
| w warheads at the reles entering inventoneads available throads available shiels and warhead shiels be carried within the weight. | - | | | | | | | | | | | | Alternate l Desig.Yld.Date |
| rate of % of the fory after new wan rough the period, elding could be in this total noseco | | | | · | | | *************************************** | | | | | | Alternate 2 Desig.Yld.Date |
| of the force per year begin ew warheads become available riod, see Section V. be incorporated at any time nosecone weight. Normal re- | ~~ | | - | | ~~~~ | | | | | | | | AIternate 3 DesignYld.Date |
| r year beginning 1 July of yean ne available would be fitted won v. at any time at some sacrifice Normal re-entry shielding is | | | | | াহ াহল বাংগী | 7 | | | | ٠. | | | Alternate 4 Desig.Yld Date |
| July of year when be fitted with the ne sacrifice shielding is | | | | | / _ | 13 -E-9 | | The state of the s | | | | Trought Tid. Dave | Alternate 5 |

IB la

SOVIET OPERATIONAL BALLISTIC AND CRUISE MISSILE SUBMARINE FORCES ---



B

Footnotes

There are submarine forces with all the Soviet fleets: Northern, Baltic, Black Sea, and Pacific. Except for one W-Conversion ship, however, all Soviet missile submarines are assigned to the Northern and Pacific Fleets; these are abbreviated NF and PF, respectively, in this table.

12 Soviet General Purpose Forces (Naval) and are manned and costed in that section. The primary role of the Soviet cruise missile submarines is anti-shipping. However, they can bused for attack against land targets. These same submarines are listed also under Section III, they can be

14 lω If the Soviets establish a routine pattern of continuous patrolling of the coast of the continental US, a maximum of about % of the nuclear-power and % of the diesel-power missile submarines in the Northern Fleet could be maintained on patrol stations within missile-launching which are limited in range to operations in the western Pacific and eastern Atlantic, respectively. See operational factors summarized in Table 183a.

In presenting mid-year figures, use ranges or other indicators of uncertainty as appropriate.

I-15

IB 1b SOVIET NAVAL BALLISTIC MISSILE INVENTORY BY YEAR 1/2/

B.A

Aboard Ship; Reserve.

| 196 A |
|----------|
| |

In presenting mid-year figures, use ranges or other indicators of uncertainty as appropriate.

- I 16 -T-O-P S-E-C-R-E-T

IB2 a

SOVIET CPERATICNAL BALLISTIC AND CRUISE MISSILE SUBMARINE FORCES -- PERSONNEL AND GUIDED MISSILE INVENTORIES PER SHIF CR HIGHER COMMAND

| | Personnel per | Guideo | l Missiles | per Shi | or Unit | GM Subs. per | Subm arine Support Ships |
|--|---------------------|-----------------|-----------------------------|----------|---------|-----------------|------------------------------------|
| GM Subs. | Oper. Sppt. Total | | SS-N-3 SS-N-4 SS-N-5 SS-N-X | 55-11-55 | SS-II-X | Unit | per Unit |
| ν. | | * | ы | * | * | * | * |
| a l | | * | ω | | * | * | * |
| ц | | * | 4.3 | | * | * | * |
| Follow-On | | * | * | | | * | * |
| W-Conv. | | 2 or 4 | * | * | * | * | 7 |
| c ₁ | | 4 | * | * | * | * | |
| æ | | 6 | * | * | * | * | * |
| GM Sub. Brigade (personnel and GM not already counted) 1/ | | | | | | | |
| Submarine Division (personnel and GM not already counted) 1/ | | | | | | | |
| Fleet Sub. Force (personnel and GM not already counted) 1/ | | | | | | | |
| 1. Includes missiles aboard support ships or on shore that are intended for operational use. | ships or on shore t | hat are intende | d for open | ational | use. | | |

S-E-C-B-E-T

- I 17 -T-O-P S-E-C-R-E-T IB 3. Soviet Ballistic and Cruise Missile Submarine Forces --Characteristics and Performance

IB 3a. Nuclear and Diesel Missile Submarines

<u>Basis</u>: Pertinent portions of Table 6, Annex B,
NIE 11-14-63.

Add: additional footnote: "About ______% of the Soviet missile submarine force is (estimated) (assumed) to be operationally available (i.e., at sea or in port for routine repairs and ready for deployment in less than _____days) at any time." Delete data on non-GM subs. Add assumptions on J class and "H class successor."

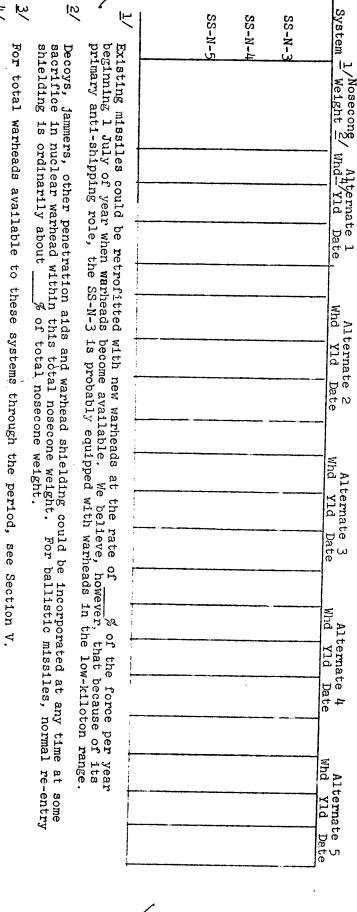
Please contribute following <u>new material</u>, either as additions to the table or as very brief text: probable current and future reliability of Soviet nuclear submarines; current noise levels of submerged Soviet submarines and improvement versus time.

IB 3b. Cruise and Ballistic Missiles

Basis: Pertinent portions of Table 2, Annex B, NIE 11-14-63 (cruise missile) and Table 2, NIE 11-8-63 (ballistic missiles). Add data on likely improvements in characteristics and performance through mid-1970, including reliability and accuracy. Add assumed data for SS-N-5. Delete data on non-submarine GM's.

IB w O

SOVIET NAVAL MISSILES -- ALTERNATIVE NUCLEAR WARHEADS W



S-E-C-R-E-T

T-0-1

14

Use JAEIC designations.

P S-E-C-R-E-T

SOVIET OPERATIONAL STRATEGIC BOMBER FORCES!/ STRENGTHS BY TYPE BY YEAR

Long Range Air Armies
LRA Divisions
Heavy Bomber Regmts
BEAR Regiments AS-3 carrier Bomb carrier Mid-1961 L**0/**Hi Mid-1964 M1d-1967 Lo/H1 M1d-1970 Lo/H1

S-E-C-R-E-T

Tankers
Total BISON's

BISON Regiments

Bombers

Total BEAR's

(Probe-equipped)

Total HB Regnts
Total Heavy Bembers
Total over US=/
Medium Bomber Regiments
BALGER Regiments

Total BADGER's BLINDER Regiments

Bombers Tankers

AS-4 carriers

I-20 F-0-P S-E-C-R-E-T

Bomb carriers
(Probe-equipped)
Total BLIMDER's
Total MB Regiments
Total Medium Bombers
Total over North America

delivery capability, percentages by mission). (A footnote on employment of LRA aircraft for reconnaissance missions, trends in importance in this mission, likelihood of retaining weapons

See. Tables of Performance and Characteristics and pertinent paragraphs in NIE 11-8-63.

SCVIET CPERATIONAL STRATEGIC BOMBER FORCES DEPLOYMENT BY TYPE BY YEAR 1/2/

Range Air Armies Lo/Hi Mid-1967 SW F SW FE TO Lc/H1 Lo/H1 Lo/H1

S-E BADGER Regiments edium Bomber Regiments Total Heavy Bombers
Total over US 3 Total HB Regmets BISON Regiments Total MB Regiments Total over North America3/ ELINDER Regiments Total BADGER's (Probe-equipped)
Total BEAR's (Probe-equipped)
Total BLINDER's Tankers Bombers Bomb carriers AS-4 carriers Tankers Bombers Bomb carrier AS-3 carrier Regiments Medium Bombers Bomber Regmts

(A footnote on employment of LRA aircraft for reconnaissance missions, trends in importance in this mission, likelihood of

retaining weapons delivery capability, percentages by mission). The three LRA arm es are located one in north-west USSR, one south-west USSR, and the third east of the Urals. designated NW, SW, and FE in this table. See Tables of Performance Characteristics and pertinent paragraphs in NIE 11-8-63. They are

SOVIET STRATEGIC BOMBER FORCES -- PERSONNEL AND EQUIPMENT PER UNIT

UNIT Operational Fersonnel Support Personnel Total Personnel Heavy 1/ Bombers Medium Bombers1/ Support Aircraft AS-3 Missiles AS-4 Missiles

BEAR REGIMENT

BISON REGIMENT

BADGER REGIMENT

S-E-C R-E-T

BLINDER REGIMENT

LRA DIVISION (Personnel aircraft, and missiles in addition to above)

T-0

LRA ARMY (Personnel aircraft, and missiles in addition to above)

Consider the question of whether an aircraft reserve is being maintained, or will be in the future.

- I 22 -T-0-P S-E-0-R-E-T

IC2 b

SOVIET STRATEGIC BOMBER FORCES -- ARTIC STAGING BASES

| | | | | | ı | -0- | ·P | s- | E-0 | [] | R-E | -T | | | | |
|---|-----------|-----------|----------|-----|-----|-----|-----------------|-------------------|------------|------------|--------------|---------|-------------------|--------|----------------|---|
| 1. "Yes" or "No" sufficient; do not specify quantities. 2. Indicate months by number; e.g., January 1, March 3, etc. 3. Indicate sensitivity of through-put per hour to specific aircraft type if necessary. 4. Name specific bases as appropriate. | Notes: | | | | | | · Comment bases | Potential Rassal/ | Tiksi | | Mys Schmidta | Olenya. | | Anadyr | Regularly Used | LRA Staging Bases |
| ident; number; of the | \int | | | | | | | | | 1 | | | 1 | | Ī/ | BEAR |
| do not e.g., rough-r | | | | | | | | | | | | | \dagger | | 1/ | 1 |
| specify January out per ; | | | | | | | | | | | | | 1 | | 1/ | Suitabil BADGE |
| quantit 1, Marc | | 1 | | 1 | | | | \dagger | | | | | + | | 1/ | Suitability BISON BADGER BLINDER |
| ies. h 3, et specifi | \dagger | \dagger | ╁ | + | + | 1 | | + | | _ | | | | | | |
| te. le airere | | | | 1 | | | | | | | | | | | 2/ | Months Useebl e |
| uft type if | | | | | | | V-10-74 | | | | | | | | w | Through- put/hour |
| necessary. | | | | | | | | | | | | | | | 1/ | Vpns. Sto |
| - | | - | <u> </u> | ļ., | | - | - | | _ | | | | | | <u>/T</u> | Storage ar ASM |
| - | | | | | | | | | | | | | | 1 | | No. Aircraft LRA Bombers Hvy. Med. |
| | | | | | | | | | | | | | | | 1 | Alreraft Normally et Base Bombers Med. I.RA Trans |
| | | | | | | | | | | | | | | | Tovort | at Base |
| | | | | | | | | | | | | | - Land | | City and n.m. | Nearest US |
| | | | | 7 | '>0 | | S- | I-2 | 23 C-18 | -E | -T | | | L | 15 | |

- IC 3. Soviet strategic Bomber Forces -- Characteristics and Performance
 - IC 3a. Heavy and Medium Bomber Weapon Systems

 Basis: Tarle 5, NIE 11-8-63
 - Add data for:

Gross Take-off Weight
Empty Weight

- Reconsider BADGER Performance
- Contribute data to indicate probable changes (vs date) in performance, including:
 System Reliability
- IC 3b. Air-to-Surface Missile Systems

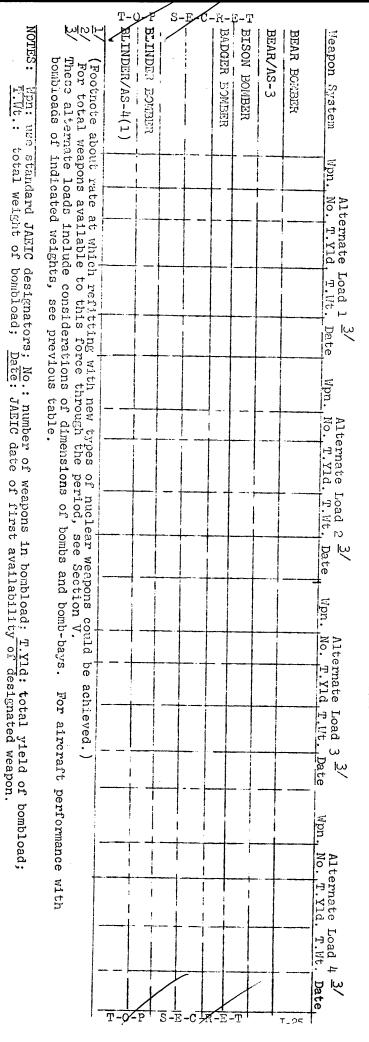
Basis: Table 4, NIE 11-8-63

Operational Attrition Rates

- Contribute data to indicate probable changes
(vs date) in performance, including:
Reliability on Launcher
Reliability in Flight

- Delete AS-1 and AS-2 data.

SOVIET STRATEGIC BOMBERS -- ALTERNATE NUCLEAR WEAPON LOADINGS 1/2/



ID. Soviet Strategic Offensive Forces -- Possible Advanced Systems

This subsection will present a discussion of possible advanced weapons systems which might appear before mid-1970 in each of the force subcomponents -- ballistic missiles, submarine-missile systems, and bombers. Specific provision has been made in preceding sections for force numbers and characteristics of advanced systems explicitly estimated in existing NIE's; these will not be discussed here. This subsection will also include a discussion of possible Soviet offensive uses of space. Contributions should be as explicit as possible and should include quantitative assumptions as appropriate.

II. SOVIET AIR AND MISSILE DEFENSE FORCES

Definition

- as basically consisting of those elements of the Soviet military establishment directly concerned with providing a defense of the homeland against long-range air and ballistic missile attacks. Thus, we consider these forces to be largely composed of the forces of PVO Strany (Anti-Air Defense of the Country) and such forces of PRO Strany (Anti-Rocket Defense of the Country) as may exist. However, we also list Soviet tactical aircraft, surface-to-air missile and AAA units which could be employed to assist the PVO in defending against air attack. We do not include those Soviet naval and air attack. We do not include those Soviet naval and air units which may be charged with attacking US aircraft carriers or ballistic missile submarines at sea, nor do we include Soviet naval coastal defense missile units and shipboard surface-to-air missile strengths.
- 2. The Soviet air and missile defense forces, therefore, roughly equate to the DOD concept of the US continental air and missile defense forces. Although tactical units which could assist in defense of the homeland are listed for completeness, their costs and manpower are charged to the general purpose forces to which they are organizationally subordinated.

Note to Contributors

3. This major section is divided into force subcomponents as follows: early-warning and ground-controlled-intercept radar; air defense control systems; interceptor aircraft and associated equipment; surface-to-air missiles; anti-aircraft artillery, and anti-missile defenses. Each force subcomponent is considered in three aspects, in the following order --

- /I-1 -T-O-P- S-E-C-R-E-T

- a. Numerical projection of the strength of the subcomponent by mid-years from mid-1961 through mid-1970;
- Description of unit structures, including basing,
 equipment holdings, and manning through the same time
 period; and
- c. Characteristics and performances of weapon systems, including operational factors such as reliability, accuracy, and non-combat attrition through the same time period.

As a convenience, however, the inventories of all missiles and all nuclear warhead aspects of Soviet air and missile defenses have been combined in subsections following those on force subcomponents. Finally, a sub-section is included for discussion of possible advanced weapons systems which might appear in each of the force subcomponents before mid-1970 but which have not been estimated explicitly in existing NIE's.

4. The subsections on each force subcomponent will be introduced with language as to general trends drawn from the appropriate NIE, together with a statement of the additional assumptions, if any, underlying the data presented. Contributions should contain paragraph references to existing NIE's and explicit statements of any additional assumptions made in arriving at the data contributed. As necessary, individual tables may be introduced with such explanatory language. In contributing to tables, pleas use brackets \(\int \frac{7}{1} \) to identify those figures you recommend be considered assumptions rather than estimates, as per the FOREWORD.

T-0-P S-E-C-R-E-T

T-0-F S-E-0-R-E-T

SOVIET IIA. 7 Early Warning/Ground Controlled Intercept Radars

Notes to Contributors:

- IIA1. Introductory Statement of Basic Trends and

 Assumptions

 NIE References: NIE 11-3-62, paras. 45-51.
- IIA2. <u>Strength Projections</u>
 See Tables IIA2a and IIA2b, attached.
- IIA3. <u>Unit Structure and Manning</u>

 Provide a TO/E description of the basic unit

 concerned with the EW/GCI mission. Include data with

 regard to basing, equipment holdings, and number of personnel.
- IIA4. Equipment Performance and Characteristics

 Contributors are requested to review Table 5
 of the Memorandum to Holders of NIE 11-3-62 for scope and content.

T-0-P S-E-C-R-E-T

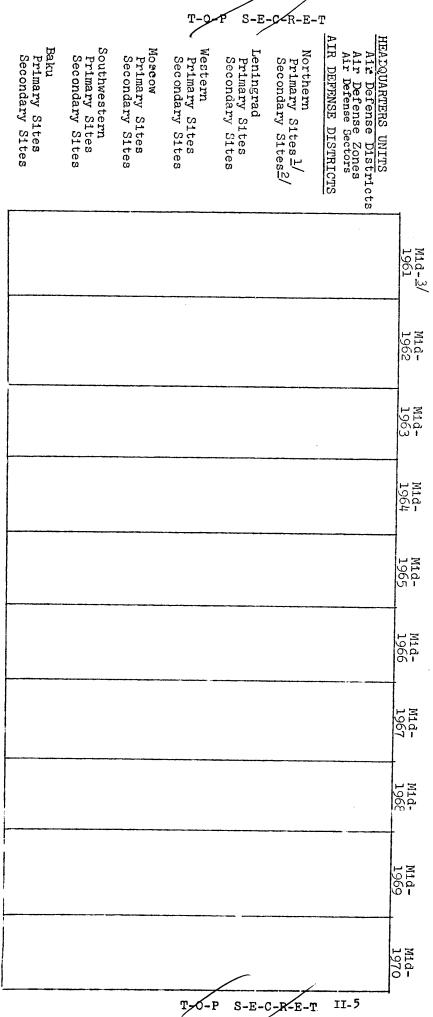
II A2a

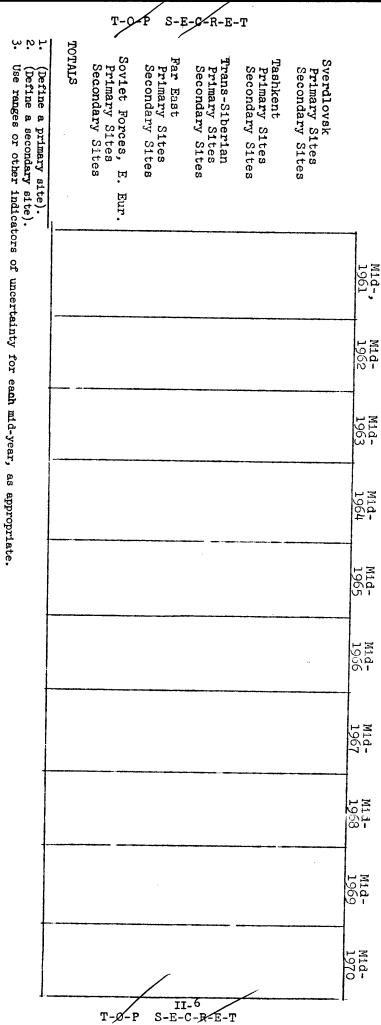
SOVIET PRIMARY EARLY WARNING/GROUND CONTROLLED INTERCEPT RADARS --NUMBERS BY TYPE BY YEAR

| | | | 1,71 | | Т- | 9-19 | S~: | _ | R-E | | 9-c-1 | | |
|---|----------|-----------------|---------------|--|--------------|-----------------|--|------------------------------|------------------|-------|-----------------|--------------|----------------------|
| . Use ranges or other indicators of uncertainty for each mid-year, as required. | TOTAL | OTHER (specify) | WITH SIDE NET | FLAT FACE | SPOON REST A | WITH STONE CAKE | DAD TOOK ADDOG OTH | STRIKE OUT With ROCK CAKE | BIG MESH/BIG BAR | TOKEN | KNIFE REST B, C | KNIFE REST A | TYPE |
| s of uncertai | | | | | | | 1 | | | | | | M1d-1/ 1961 |
| nty for each | | | | | | | | | | | | | M1d- 1962 |
| mid-year, s | | | | and the state of t | | | Manager of the Control of the Contro | | | | | | M1d- 1963 |
| s required. | | | | | | | | | | | | | 1964 1964 |
| | | | | | | | | | | | | | M1d- 1965 |
| ! | | | | | | | in the same of the | - | | | | | 996t MTG- |
| | | | | | | | | | | | | | Mid- 1967 |
| | <u> </u> | | | <u> </u> | | | | | | | | | м1 ф- 1968 |
| | | - | | | | | | | | | | | M1d- 1969 |
| | | | | | | | | | | | II | | M1d- 1970 |
| | | | | | T. | -9-P | S- | E-C- | n-E | ~T | | - | |

II A2b

SOVIET EARLY WARNING/GROUND CONTROLLED INTERCEPT RADARS -- DEFLOYMENTERY SITES BY AIR DEFENSE DISTRICTS





II A 2b (conti.)

T-0-P S-E-0-R-E-T

II B. Air Defense Control Systems

Notes to Contributors:

- II Bl. Introductory Statement of Basic Trends and

 Assumptions

 NIE References: NIE 11-3-62, paras. 54-57.
- II B2. <u>Strength Projections</u>
 See Table II B2a, attached.

II B3. Unit Structure and Manning

Provide a TO/E description of the basic unit involved in the air defense control system. Include data with regard to basing, equipment holdings and number of personnel.

II B4. Equipment Performance and Characteristics Contributors are requested to provide data in tabular form on the performance and characteristics of the key elements of the air defense control system as listed in Table II B2a, above. Consider such items as mode of transmission, speed of operation, target handling capability, effective operational coverage, etc.

T-0-P S-E-0-R-E-T

II B2a.

SOVIET AIR DEFENSE CONTROL SYSTEMS -- DEFLOYMENT BY TYPE BY AIR DEFENSE DISTRICTS

| • • | | | T-0-P | S-E-C-A | -E-T | | |
|--|---|---|--|--|-----------------------|--|----------------|
| Southwestern Alr Warn Cntrs Filter Centers Sem1-auto Cntrl Gps | Moscow Air Warn Cntrs Filter Centers Semi-auto Cntrl Gps | Western Air Warn Cntrs Filter Centers Semi-auto Cntrl Gps | Leningrad Air Warn Ching Filter Centers Semi-auto Chirl Gps | Northern Air Warn Cntrs Filter Centers Semi-auto Cntrl Gps | AIR DEFENSE DISTRICTS | HEADQUARTERS UNITS Air Defense Districts Air Defense Zones Air Defense Sectors | |
| | | | | | | | 1 |
| **** | | | | | | | M1d-1/ 1961 |
| | | | | | | | M1d- 1962 |
| | | | | | | | Mid- 1963 |
| | | | and the second s | *** | 100 | · | Mid- 1964 |
| - | | | | | Secretary received | | M1d- 1965 |
| | | or special | | F - Allestatoro y mates - page | | | M1d- 1966 |
| | | | | | | | Mid- 1967 |
| - Martin Laborator - Incomposition - Incomposi | | | | | | | M1d- 1968 |
| | | | | | | | M1d- |
| | | | | / | | ± % | Mid- |
| | | , | P-O-P S- | E-C-R-E- | T | 11-8 | |

S-E-C-R-ETT TOTALS Soviet Forces, E. Eur Air Warn Cntrs Filter Centers Semi-auto Cntrl Gps Far East Air Warn Cntrs Filter Centers Semi-auto Cntrl Tashkent
Air Warn Cntrs
Filter Centers
Semi-auto Cntrl Trans-Siberian
Air Warn Cntrs
Filter Centers
Semi-auto Cntrl Sverdlovsk
Air Warn Cntrs
Filter Centers
Semi-auto Cntrl (Baku Air Warn Cntrs Filter Centers Semi-auto Cntrl (gps gdb Gps Gps Eur Gps M1d-Mid-1965 M1d-1967 M14-M1d-1970

T-Ø-P

S-E-0-R-E-T

II-9

II B2a. (cont1.)

Use ranges or other indicators of uncertainty for each mid-year as appropriate.

T-O-P S-E-C-R-E-T

II C. / Interceptor Aircraft and Associated Equipment

Notes to Contributors:

II Cl. Introductory Statement of Basic Trends and Assumptions

NIE References: NIE 11-3-62, paras. 36-43; Memorandum to Holders of ITE 11-3-62, paras. 12 and 13; and NIE 11-14-63, paras. 11, 12, 31, 32, 45, 46, 48, 82, 89 and 112.

II C2. Strength Projections See Tables II C2a, II C2b, and II C2c, attached.

II C3. Unit Structure and Manning

Provide a TO/E description of the air defense and tactical air force regiments. Include data with regard to basing, equipment holdings and number of personnel. Pay patticular attention to the number of interceptor aircraft per regiment. Consider the question of whether an aircraft reserve is being maintained, or will be in the future.

II C4. Equipment Performance and Characteristics Contributors are requested to review Tables 2, 3 and 4 of the Memorandum to Holders of NIE 11-3-62 for scope and content.

Note that nuclear aspects are covered in Section II G.

II-10

T-O-P S-E-C-R-E-T

II C2a.

SOVIET LITERCEPTOR AIRCRAFT -- STRENGTHS BY MODEL BY YEAR 1

| MODEL | 1961 | M1d- | 1063 M1d- | Mid- | Mid- | Mid- | Mid | Mid- | MLQ- | M1d- |
|----------------|------|------|--------------|---------------------------|-------|--|-------|---|------|-------------|
| | TO H | To H | To H | To H | To HI | To H | TO ET | _ To _ H | | 1970 |
| All-Weather | | | | · | | | | | 1 | |
| Newer | | | *********** | | | | | | | |
| | | | | PARTIES - CAPTURE CAPTURE | | The state of the s | | | | - |
| FISHBED D | | | | | | | | | | |
| FLIPPER | | | | | | | + | - | | |
| FIDDLER | | | | | | | | + | | |
| FIREBAR B | | | | | - | | | + | - | 1 |
| Older | | | | | | | + + | | + | |
| FRESCO D. E | | | | | | | | | | + |
| FARMER B. E. | - | | | | | | + | | + | |
| FLASHLIGHT A | | | | | | | _ | 1 | | |
| | | | | | | | | 1 | | 1 |
| Clear-Air-Mass | | | | | | | | | | |
| Newer | | | | | | | | | | |
| FISHBED C | | | | | | - | | | | - |
| FITTER | | | | | | | - | | + | + |
| 0lder | - | | | | | | | | | |
| FAGUI | | | | | | | | | | - |
| | | | | | | | | | | |
| FARMER A.C.D | | | | | | | | | | |
| | - | | | | | | | | | - |

aviation. For numbers assigned to each force, see subsequent tables. defense forces and the others to tagtical

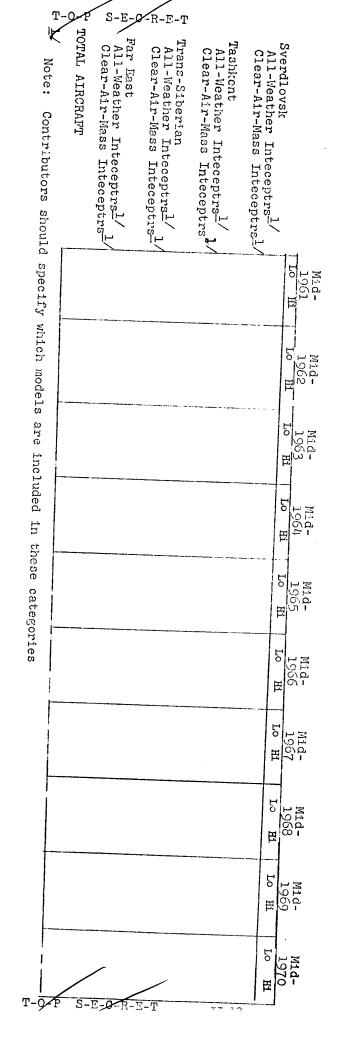
II C2b.

į

SOVIET INTERCEPTOR AIRCRAFT ASSIGNED TO AIR DEFENSE OF THE HOMELAND (PVO) -DEPLOYLELT BY TYPE BY AIR DEFENSE DISTRICT BY YEAR

| | | | | T~ | 0- <u>P</u> S- | E-&-R-E | T-2 | | |
|--|---|---|---|--|---|---|-------------------------|---|-----------------------|
| (See Rootnote on following pare | Baku All-Weather Inteceptive 1/ Clear-Air-Mass Integeptive 1/ | Southwestern All-Weather Intecepter 1/ Clear-Air-Mass Intecepter 1/ | Moscow All-Weather Intecepted / Clear-Air-Mass Intecepted / | Western All-Weather Intocoptrol Clear-Air-Mass Intocoptrol | Leningrad All-Weat r inteceptral Clear-Air-Mass Inteceptral | Northern All-Weather Inteceptive / / / Clear-Air-Mass Inteceptive / / / / / / / / / / / / / / / / / / / | H AIR DEFENSE DISTRICTS | Regiments | AIR DEFENSE UNITS |
| are) | | | | | | | | | Mid- 1961 |
| | | | | | | | | | Mid- 1962 Lo Hi |
| | | | | | | | | | M1d- 1963 Lo Hi |
| | | | | ania ina aman'i mana dikao minima | rantos nas modes er spina (v | | | · • • • • • • • • • • • • • • • • • • • | M1d- 1964 |
| | | | | | | | | | 1965 1965 |
| | | | | | | | | | To Hi 1966 |
| | | | | | | | | | Mid- 1967 Lo Hi |
| | | | | | | | | | M1d- 1968 Lo Hi |
| The second secon | ' | | | | | | | | Mid- 1969 Lo Hi |
| | | | | | | | | <u></u> | Mid- 1970 Lo Hi |
| | | | | J | 0-P S- | E-0-R-1 | E-T | 1 | II-12 |

II C2b. (conti)



TT 050.

SOVIET INTERCEPTOR AIRCRAFT ASSIGNED TO TACTICAL AVIATION -DEPLOYMENT BY TYPE BY MILITARY DISTRICTS

| ~ | | | | т- | .0-18- S. | -E-C-R- | E-T | | |
|----------------------------------|---|---|---|---|--|---|--|--------------------|---|
| (see footnote on following page) | Moscow All-Weather Inteceptrs1/ Clear-Air-Mass Inteceptrs1/ | Kiev All-Weather Inteceptrs-1/ Clear-Air-Mass Inteceptrs-1/ | Odessa All-Weather Inteceptrs 1/ Clear-Air-Mass Inteceptrs 1/ | Carpathian All-Weather Inteceptrs 1/ Clear-Air-Mass Inteceptrs 1/ | BeleRussian All-Weather Inteceptrs 1/ Clear-Air-Mass Inteceptrs 1/ | Baltic All-Weather Inteceptrs 1/ Clear-Air-Mass Inteceptrs 1/ | Leningrad All-Weather Inteceptrs 1/ Clear-Air-Mass Inteceptrs 1/ | MILITARY DISTRICTS | TACTICAL AIR FORCE UNITS Armies Divisions Regiments |
| (e) | | | | | | | | | Mid- 1961 Lo Hi |
| _ | | | | | | | | | Mid- 1962 Lo Hi |
| | | | | | | | | | M1d- 1963 Lo Hi |
| | | | | | | | | | Mid- 1964 |
| | 100-110-1-1-1-1 | | | | | | | | Mid- 1965 Lo Hi |
| | | | | | | | | | To Hi 1966 Wid- |
| | | | | | | oognaar vaabayaa waa i waxaa saa saa saa | | | Mid- 1967 Lo Hi |
| | | | | | | | | | Mid- 1968 |
| | ****************************** | | | | | | | | Mid- 1969 |
| | | | | | | | | | Mid- 1970 |
| | | | | m_h_D | 6 F 6 | / | | | |

T-O-P S-E-C-R-E-T

II D. / Surface-to-Air Missiles

Motes to Contributors:

II D1. Introductory Statement of Basic Trends and Assumptions

NIE References: NIE 11-3-62, paras. 8-21; Memorandum to Holders of NIE 11-3-62, paras. 14-18; and NIE 11-14-63, paras. 48 and 112.

II D2. Strength Projections See Table II D2a, attached

II D3. Unit Structure and Manning

Provide a TO/E description of a SAM regiment. Include data with regard to basing, equipment holdings and number of personnel. When describing the components of a SAM regiment, provide information as to the number of launchers, missiles, etc. per site.

II D4. Equipment Performance and Characteristics

Contributors are requested to review Table 1 of the Memorandum to Holders of NIE 11-3-62 for scope and content. Assumed characteristics and performance data should be provided for the SA-3 missile.

 $\label{eq:Note that nuclear aspects are covered in Section II G. \\$

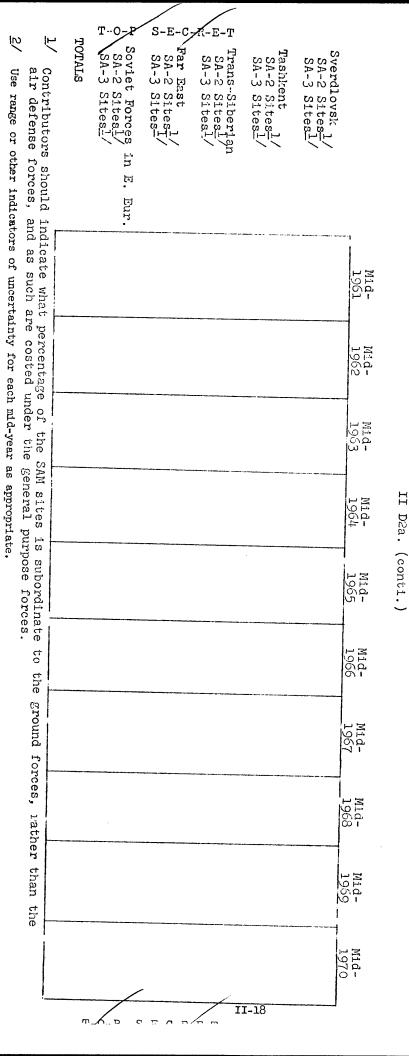
T-0-P

S-E-C-R-E-T

II D2a.

SOVIET SURFACE-TO-AIR MISSILE SITES --DEFLOYMENT BY SYSTEM BY AIR DEFENSE DISTRICT BY YEAR

II-17



SOVIET II E. / Anti-Aircraft Artillery

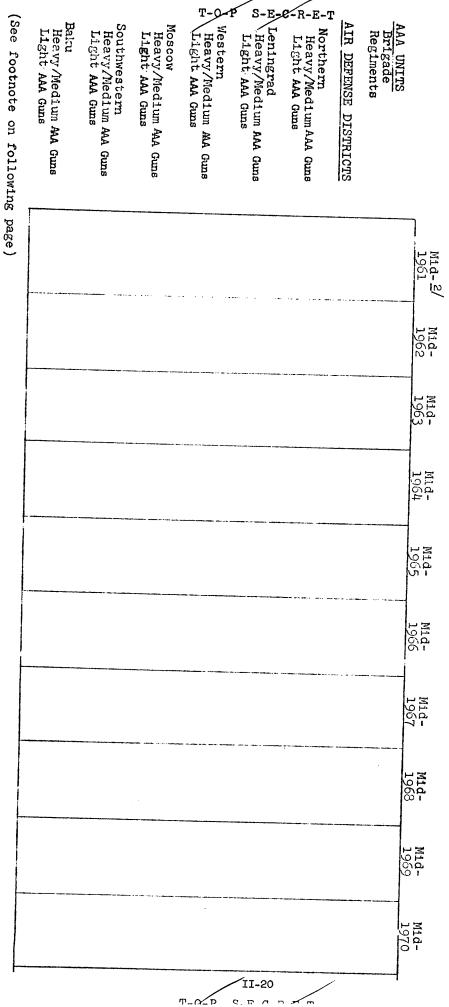
Notes to Contributors:

- II El. Introductory Statement of Basic Trends and Assumptions NIE References: NIE 11-3-62, para. 44.
- II E2. Strength Projections See Table II E2a, attached.
- II E3. Unit Structure and Manning Provide a TO/E description of an AAA regiment. Include data with regard to basing, equipment holdings and number of personnel.

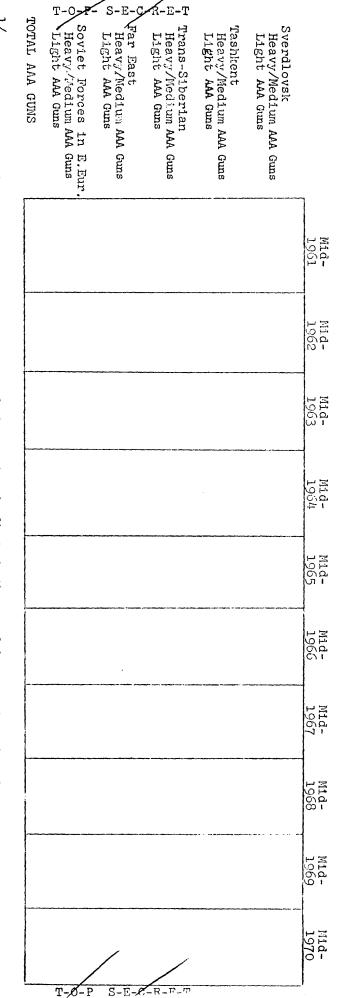
II E4. Equipment Performance and Characteristics Contributors are requested to review Table δ of NIE 11-3-62 for scope and content.

II E2a.

SOVIET ANTI AIRCRAFT ARTILLERY -DEPLOYMENT BY TYPE BY AIR DEFENSE DISTRICT BY YEAR-1/



II E2a. (conti.)



K 12 Contributors should indicate what percentage of the AAA is subordinate to the ground forces, rather than air defense forces, and as such are costed under the general purpose forces.

Use ranges or other indicators of uncertainty for each mid-year as appropriate.

T-O-F S-E-C-R-E-T

SOVIET II F. /Anti-Missile Defenses

Notes to Contributors:

II Fl. <u>Introductory Statement of Basic Trends and</u> Assumptions

NIE References: NIE 11-3-62, paras. 22-32 and the Memorandum to Holders of NIE 11-3-62, paras. 1-10.

II F2. Strength Projections See Table II F2a, attached.

II F3. Unit Structure and Manning

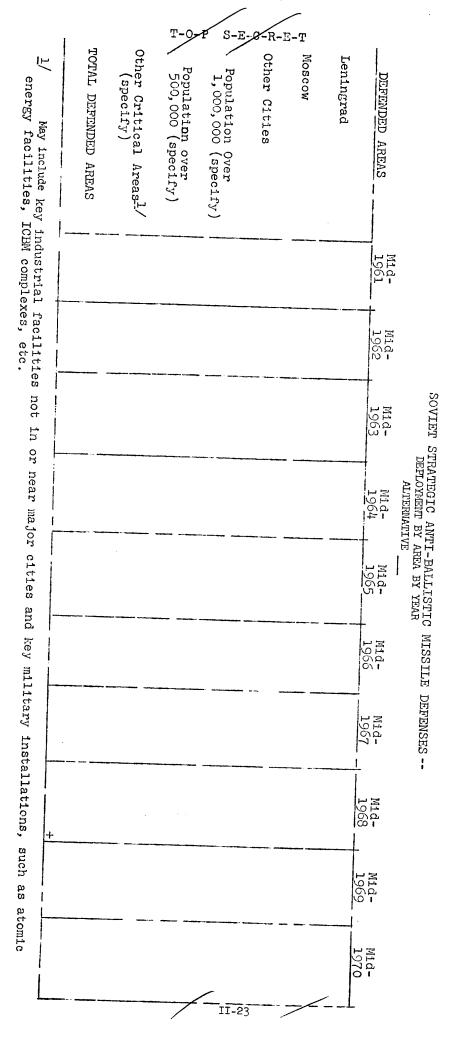
Contributors should provide as a supplement to Table II F2a, a description of the assumed Soviet concept of ABM defense, including the organizational structure it would involve and the equipment it would require. Alternative assumptions as to the number of areas defended at any given time should be made on the basis of at least two possibilities consistent with NIE 11-3-62: (a) a limited deployment program to include a few cities, and (b) a large-scale deployment program involving the defense of some 20-25 key cities.

II F4. Equipment Performance and Characteristics See Table II F4a, attached.

 $\label{eq:Note that nuclear aspects are covered in Section II G. \\$

T-O-P S-E-C-R-E-T

II F2a.



II F4a.

SOVIET ABM SYSTEMS -- ASSUMED CHARACTERISTICS AID PERFORMANCE

ABM-1

ABM-2(?

ABM-3(?)

Distance/Time vs.
Atlas-Titan
Minuteman
Polaris

Acquisition

Target Track Capability

No. of Objects

Discrimination Capability 1/

Against Decoys
Excatmospheric
Atmospheric
Against Multiple Warheads

Capability vs. Penetration
Techniques 1/

Against Chaff
Against Jamming
Precursor Bursts

Accuracy

CEP

(See footnote on following page)

II-24

II F4a. (conti.)

ABM-2(?)

Intercept Altitude

Maximum Minimum

Acceleration

Burnout Velocity

Aerodynamic Control

Nol of G's

Warhead Weight

Launchers Per Firing Unit Missile Weight

Missiles Per Launcher Hardness of Sites

Note to Contributors: Judgments on these characteristics may be expressed in words, such as, excellent, very good, good, fair, poor, very poor, and none.

II G

SOVIET AIR AND MISSILE DEFENSE MISSILE INVENTORIES1/

C.B.A

On Launcher; Reserve in firing units; Reserve at higher echelon, pipeline and training.

| 1. In pr | ABM-3 | ABM-1 | AA-5 | 44-AA | SA-2 | SA-1 | Туре |
|--|--|-------|------|-------|----------|---------|-----------------------|
| 1. In presenting mid-year figures, use ranges or other indicators of | | | | | | | Mid- 1961 A B C |
| † † † † † † † † † † † † † † † † † † † | | | | | | | M1d- 1962 A B C |
| | | | | | | | M1d- 1963 A B C |
| | | | | | | | M1d- 1964 A B C |
| | | | | | | | M1d- 1965 A B C |
| | | • | | | | | Mid- 1966 |
| | | | | - | | A B C A | M1d- 1967 |
| | | | | | - | | M16 |
| - | | | | | | В С | M1d- 1969 |
| | 1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1- | **** | | - | | BC | M1d- 1970 |
| | - | II 2 | 6 - | / | <u>/</u> | | |

T-O-P S-E-C-R-E-T

SOVIET AIR AND MISSILE DEFENSE WEAPON SYSTEMS -- ALTERNATE MUCLEAR WARHEADS

| System | |
|--|----------------------------|
| Warhead Weight | |
| Alternate 1 Warhead Weight (type/yield/year) | |
| Alternate 2 (type/yield/year) (type/ | ALTH |
| Alternate 3 (type/yield/year) | alternate warhead types ½/ |
| AJ (type | |
| ternate 4 Alternate 5 /yield/year) (type/yield/yea) | |

T-04 SA-2
S-E-CR: SA-3
AA-4
AA-4
AA-5

SA-1

ABM-2 (?)

ABM-3 (?)

New warhead types could be introduced at a maximum rate of about ______ per year after initial availability. For total warhead availability to air defense missions through the period, see Section V on Alternative Nuclear Weapon Allocations.

II I. Soviet Air and Missile Defense Forces -- Possible Advanced Systems

This subsection will contain a discussion of possible advanced air and missile defense weapons and support systems that may become operational prior to mid-1970.

Particular attention should be given to advances previously referred to in existing NIE's but not explicitly estimated. Contributions should include assumed performance characteristics and dates of entry into operational units. Consideration should be given to possible advances in the following fields:

- a.) EW radars, particularly EW systems for the detection of ballistic missile attacks.
 - b.) Electronic counter-measures.
- $\qquad \qquad \textbf{c.)} \quad \text{Interceptor aircraft, air-to-air missiles} \\ \text{and airborne radars.}$
 - d.) Surface-to-air missile systems.
- e.) Space surveillance, satellite inspection and satellite interceptor systems.

- II 28 -

T-0-P S-E-C-B-E-T

SOVIET
III. / GENERAL PURPOSE FORCES

Definition

- 1. We define the general purpose forces of the USSR as basically comprising the following:
 - a. Theater forces, which include ground combat and tactical air forces plus their associated command, support and service elements;
 - b. Naval forces, which include the Soviet naval surface fleet, the submarine fleet except ballistic missile submarine forces, and the naval air forces;
 - c. Military airlift and sealift.
- 2. Thus, we consider these forces to be largely composed of the forces subordinated to Soviet Military Districts, Groups of Forces, Tactical Air Armies, Naval Fleets and Separate Flotillas, and Military Transport Aviation.
- 3. The Soviet general purpose forces, therefore, roughly equate to a combination of several DOD force concepts: General Purpose Forces -- Army, Navy, and Air Forces; and Airlift and Sealift Forces. An additional DOD Concept, General Purpose Forces -- Marine Corps, does not exist in the USSR. The small sealift capability subordinate to the Soviet Fleets is lumped with the rest of the naval surface forces in this document. Although the Sowiets could augment their military sealift and airlift capabilities by drawing upon their merchant fleet and Civil Aviation, civil sea and air transport capabilities are not included in this document because they are not part of the Soviet military establishment.
- 4. Certain portions of the Soviet general purpose forces are listed in other sections of this document as well as this section. Cruise missile submarines are listed in the strategic

T-O-P S-E-C-R-E-T

Attack forces section. Interceptor aircraft, surface-to-air missiles, and anti-aircraft artillery subordinate to the theater forces are listed in the air and missile defense forces section. Their listing in these other sections reflects their capability to perform strategic attack and defense missions, but because their primary missions and subordination are with general purpose forces, their costs and personnel are charged to the general purpose account.

Note to Contributors

- 5. This major section is divided into subsections on general purpose ground, air, and naval subcomponents. Each subcomponent is considered in three aspects, in the following order -
 - a. Numerical projection of the strength of the subcomponent by mid-years from mid-1961 through mid-1970;
 - Description of unit structures, including basing,
 equipment holdings, and manning through the same time
 period;
 - c. Characteristics and performance of weapon systems, including operational factors such as reliability, accuracy, and non-combat attrition through the same time period.

In addition, a subsection is included for discussion of pessible advanced weapons systems which might appear in each of the force subcomponents before mid-1970.

6. The subsections on each force subcomponent will be introduced with language as to general trends drawn from the appropriate NIE, together with a statement of the additional assumptions, if any, underlying the data presented. Contributions should contain paragraph references to existing NIE's and explicit statements of any additional assumptions made in arriving at data contributed. As necessary, individual tables may be introduced with such explanatory language. In contributing to tables, please use brackets [] to identify those figures you recommend be considered assumptions rather than estimates, as per the FOREWORD.

III-2
TOP SECRET

E-III

SOVIET THEATER FORCES -- INVIBER OF GROUND UNITS BY TYPE BY YEAR

III Al

Alternative A: 140 divisions in Oct 1963; 120 in mid-1970

1970 1970 Alternative B: 110 divisions in Oct 1963; in mid-1970, a number of divisions one-million man theater ground force MLd-1969 1968 1968 1967 Md-1966 Mid-1965 1364 1964 M.d. 1963 itid-1962 1961 1961 Airborne (Category I) Category I Category II Category III Category I Category II Category III Motorized Rifle Divisions Tank Armies Corps Units

T-0-P

S-E-C-R-E-T

headquarters assumed to be Fronts in time of war. other. That number of military district and

Potential Fronts1/

Combined-Arms Tank

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SSC-2

SSC-1

SS-Follow-on Tac

SS-1b

SS-la Туре

SS-2 SS-lc

FROG-4 FRCG-3

FROG-2 FROG-1

SA-3 SA-2

ABM-Field

ATGM-SNAPPER ATOM-SWATTER

In presenting mid-year figures, use ranges or other indicators of unpertainty as appropriate.

| THEATER |
|---------------------------------------|
| GROUND |
| FORCE |
| D FORCE MISSILE |
| ATER GROUND FORCE MISSILE INVENTORIES |
| BΥ |
| YEAR |
| IL. |

| On Launcher; Reserve in firing | . | A |
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| <u>.</u> | | Ω. | Reserve | at higher | units, pi | Reserve at higher units, pipeline, training. | ining. |
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| M1d- 1961 A B C 1 | M1d 1961 | 2 1963 1 C A B C A | M1d- 1964 A B C | Mid- Mid- 1964 1965 A B C A B C | M10 196 A B | 1- Mid- 56 1967 | M1d- M1d- 1968 1969 A B C A B C |

M1d-1970 B C

SOVIET THEATER FOR CE GROUND UNITS -- NUMBERS OF PERSONNEL AND EQUIPMENT PER UNIT

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| | | Vincel V. | |
| | Total | • A TIECK A• | |
| | AT. | | |
| Equipment Per Unit | Guided Missiles | | |
| uipment | FROGS | | |
| | 3P | | *************************************** |
| | Towed | | |
| | APC | | |
| | Tanks | | - |
| - | Total. | | |
| Per Unit | Support | | ~- |
| Personnel Per Unit | Support | | M. |
| | Combat | | |
| | Unit | Motorized Rifle Division TOE Strength Actual, Category II Actual, Category III Corps (Non-Division Typical Wartime Average Peacetime Combined Arms Army (Non-Divisional) Typical Wartime Average Peacetime Average Peacetime Tank Army (Non-Divisional) Typical Wartime Average Peacetime Trypical Wartime Average Peacetime Trypical Wartime Average Peacetime Trypical Wartime Average Peacetime Trypical Wartime | Average Peacetime Front (Non-Divisional, Non-Army) Typical Wartime Average Peacetime |

TOP SECRET

IIIA3. SOVIET TACTICAL MISSILES, TECHNICAL CHARACTERISTICS AND PERFORMANCE

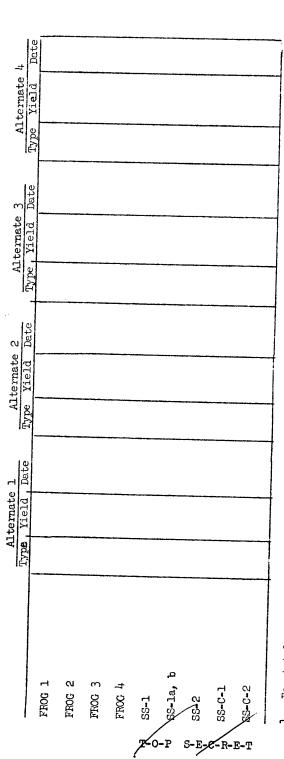
Basis: Table 1, Annex B, NIE 11-14-63

- -- Add data on anti-tank guided missiles and on any assumed improved missiles
- -- For all missiles, indicate likely improvements vs.

 time, particularly accuracy and reliability

MII-5 TOP SECRET

III A4 SOVIET TACTICAL MISSILES -- ALTERHATIVE HUCLEAR AND CH WARHEADS $^{\perp}$



1. For total availability of nuclear warheads for ground force missions through the period, see Section V.

TOP SECRET

IIIA5. SOVIET GROUND FORCE WEAPONS -- POSSIBLE ADVANCES TYPES

Note to contributors:

Discuss any possible new ground force weapons systems which might enter operational inventory by mid-1970, giving assumed characteristics, possible date of entry, and factors affecting rate of entry into operational units.

III-7 TOP SEOKET

SOVIET GENERAL PURFOSE AVIATION -- NUMBERS OF COMBAT UNITS AND AIRCRAFT BY NOBEL BY YEARL/

Lowside of Force, Table 7, Annex A, MIE 11-14-62 Highside of Force, Table 7, Annex A, NIE 11-14-62 Alternative A: Alternative B:

| 1970 | | | 1 | + | | 1 | 1 | 1 | | 1 | - | | - | | | | 7 | | _ | | | | 1 | 1 | _ |
|-----------------------|---------------------|---------|-------------------|-------|--------------|--------|---------|--------|--------------|--------------------|-------|------------|-----------------------|----------------|--------|---------|--------------------|-------|-------------------------|--------------------|----------------|-------------------|--------------------|----------------|---|
| Mid- 1969 A B | | | 1 | 1 | | † + | 1 | # | + | + | 1 | | | | 1 | | | | _ | | | | | 1 | _ |
| Mid- 1968 A B | | + | + | | | + | + | 1 | + | + | + | + | | - | | | | | | 1 | 1 | | + | + | |
| Mid- 1967 A B | | | 1 | | + | + | + | + | + | + | + | + | 1 | | - | + | + | + | + | + | | | - | + | |
| Mid- 1966 A B | | 1 | | | | | | | 1 | | | + | 1 | + | 1 | ++ | + | + | + | + | | | | 1 | 1 |
| Mid- 1965 A B | | - | - | | + | | | | | | | | | | 1 | | | | 1 | 1 | 1 | | | | T |
| Mid- 1964 A B | | | | | | | | | - | - | | | | | + | | 1 | - | | | | | | | + |
| Mid- 1963 A B | | + | | | 1 | | - | | | - | - | | - | - | - | - | | | | | | | | | |
| Mid- 1962 A B | | - | | + | | | | | | - | | - - | | | - | | - | - | - | | + | + | | | |
| M1d- 1.961 A B | | | | + | | | | | | | | _ | | | | | | | - | - | - | • | | | |
| | | | | | | | | | | | | | | | | | | | | | | • | | | • |
| | Tactical Air Armies | r Corps | Fighter Divisions | FAGOT | PRESCO | FARMER | FISHEED | FTTTEK | 17.7-1790/ | Fighter Recon Rgts | FAGOT | FLASHLIGHT | Light Bomber Division | Lt Bomber Rgts | BEAGLE | FIREBAR | Lt Bubr Recon Rgts | EAGLE | Division Avia. Sections | Lt. Helicopters 2/ | Corps and Army | Aviation Sections | Lt. Helicopters 2/ | FW LT ACIT. 2/ | |
| | Tactica | Fighte | FIGUTE | 97.7 | , ¬ | | 7 | | - ' F | F1.81 | | | Light 1 | Lt 1 | -4 | ±1 | Lt I | 1 | Divisic | T | Corps a | Aviatio | 7 | 21 | |

S-E-C-R-E-T 111-8

> Tactical Aviation transport units are included in Table III Bla. Consider the question of whether an aircraft reserve is being maintained, or will be in the future. See Secton III B3 for indication of models included in light aircraft categories. ن ن ن

SOVIET GENERAL FURPOSE AVIATION -- NUMBERS OF AIRLIFT UNITS AND AIRCRAFT BY YEAR (MILITARY TRANSPORT AVIATION)

/ III-9

⁽Footnote indicating capability of this component in terms of airborne units which could be airlifted). See Section III B3 for indication of aircraft models included in light, medium, and heavy categories. ų.

SOVIET GENERAL PURPOSE AVIATION -- NUIBERS OF PERSONIEL AND EQUIPMENT PER UNIT

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| Lt. | | | | | | | | | | | | | |
| Med. | | | | | | | | | | | | | |
| Hvy | | | | | | | | | | | | | |
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| Traine | | | | | | | | | | | | | |
| Missiles | | | | | | | | | | | | - | • |
| Fighters | | | | **** | | | | *************************************** | | | | | |
| Bombers | | | | | | | | | | | | | |
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| oper. | | | | | | | | | | | | · | |
| / 5 | Tactical Air Army=/ | Fighter $corps^{\frac{1}{2}}$ | Division | Ftr. Regt. | Recon. Regt | Light Bomber Division $^{1}/$ | Bmbr. Regt | Recon. Regt | Transport Division $^{1}/$ | Trans Regt. | Helic. Regt. | Div. Avn. Sec. | Corps/Army Avn. Sec. |
| | Oper. Sppt. Total Bombers Fighters Missiles Trainers Med. Lt. Hvy. Med. Lt. | Sppt. Total Bombers Fighters Missiles Trainers Med. Lt. Hvy. Med. Lt. | Oper. Sppt. Total Bombers Fighters Missiles Trainers Med. Lt. Hvy. Med. Lt. | Oper. Sppt. Total Bombers Fighters Missiles Trainers Med. Lt. Hvy. Med. Lt. | Oper. Sppt. Total Bombers Fighters Missiles Trainers Med. Lt. Hvy. Med. Lt. | Oper. Sppt. Total Bombers Fighters Missiles Trainers Med. Lt. Hvy. Med. Lt. | islon- | iston-/ | ision 1 | ision-/ oper, Sppt. Total Bombers Fighters Missiles Trainers Med. Lt. Hyy. Med. Lt. ision-/ on-/ on-/ on-/ on-/ on-/ on-/ on-/ | 1sion-1 | ision-1 | ision1/ |

T-0-P S-E-C-R-E-T

1. Personnel and equipment listed for this unit are exclusive of those in subordinate echelons.

T-0-P S-E-C-7-E-T

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T-O-X S-E-C-R-E-T

IIIB3. SOVIET GENERAL PURPOSE AVIATION: CHARACTERISTICS AND PERFORMANCE OF AIRCRAFT

IIIB3a. <u>Tactical Aircraft</u> --

Basis: Table 3, Annex B, NIE 11-14-63
Review and indicate any likely improvements in
performance and date thereof. Add date for TF-1967.

IIIB3b. Transport Aircraft --

Basis: Table 4, Annex B, NTE 11-14-63'
Review and indicate any likely improvements in
performance and date thereof. Add data for fixedwing light transports Indicate light, medium, and
heavy transports by name.

IIIB3c. Helicopters --

Basis: Table 5, Annex B, NIE 11-14-63
Review and indicate any likely improvements in performance and date thereof. Indicate light, medium, and heavy helicopters by name.

T-P-P S-E-C-R-E-T

III B3 q

SOVIET TACTICAL AIRCRAFTL -- ALTERIATE HUCLEAR AND CH' LOADINGS

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|---|---------|
| Wpns. | |
| Alternate 3 Alternate 4 Ind. Total Ind. Total Ind. Total Ind. Total Wt. Yield Date Wpns. Wt. Yield Date Whish of the Wine Will Date Whith Will Date Will Date Whith Will Date | |
| Alternate 3 Ind. Total Wins. Wt. Yield Date | |
| Alternate 2 Ind. Total Wpns. Wt. Yield Date Wpns. | |
| Alternate 1 Ind. Total Wpns. Wt. Yield Date Wpns. | |
| Aircraft FAGOT FRESCO FARIER FISHBED FISHBED FIREBAR FIREBAR | TF-1967 |

1. For total weapons availability in Tactical Aviation through the period, see Section V. 2. Give number of weapons per aircraft type. Identify nuclear weapons by type using JAEIC designations.

T-O-P S-E-C-X-E-T

IIIB4. SOVIET GEHERAL PURPOSE AVIATION -- POSSIBLE ADVANCED EQUIPMENT

(Note: Discuss any possible new tactical air weapons systems or aircraft (except TF-1967) which might become operational before mid-1970. Incude transports and helicopters and other possible new non-combat aircraft.

Give assumed characteristics, operational date, and/rate of entry into operational units).

T-O-P S-E-C-R-E-T

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III A2/III B2

SOVIET THEATER FORCES GEOGRAPHIC DISTRIBUTION MID-1964, MID-1967, MID-1990

Notes:

- 1. This set of three tables in designed to take the totals of ground and air units and aircraft developed elsewhere in Section III and indicate their geographic distribution in mid-1964, mid-1967, and mid-1970. The alternates, A and B, are the same as those used in Tables III Al and III Bl.
- 2. The break-down of aircraft into ald, current, and future models should be the same as in the footnotes to Table 7, Annex A, NIE 11-14-63.

MD

3. The geographic areas are defined as follows:

| Western USSR | Southern |
|---|---|
| Baltic MD Belorussian MD Carpathian MD Moscow MD | North Caucasus MD TransCaucasus MD Turkestan MD |
| Southwestern | Gentral Siberian MD |
| Kiev MD | Ural MD |
| Odessa MD | Volga MD |
| Northwestern | Far Eastern |
| Leningrad | Far East MD Trans-Baikal MD |

T-0-P S-E-C-R-E-T

III A2/III B2

SOVIET THEATER FORCES -- GEOGRAPHIC DISTRIBUTION --

Alternate A: 140 Ground Divisions; 3,300 Tactical Aircraft. Alternate B: 110 Ground Divisions; 3,000 Tactical Aircraft

| Grand Total A B | | | | | | | 1 |
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| l an | A sions Motori Cat Cat Cat Cat Cat | Cat | | bin | 181 | Mo Mo ren | |
| Ground and Air Units | risi Mot Ter | Category III Alrhomas (Category I) | Ed. | Armies Combined Arms Tank | Potential Front | Pactical Air Armies Old Model Fighters Old Model Lt. Embrs. Current Model Ftrs. Current Model Lt. Bombers | |
| S. S. | Divisions Motorized Rifle Category I Category II Category III Tank Category II | 1 | Corps | | Pot | Tac | |
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III A2/III B2
SOVIET THEATER FORCES -- GEORGAPHIC DISTRIBUTIOW --

Alternate A: Ground Divisions; 2,700. Tactical Aircraft. Alternate B: Ground Divisions; 2,200 Tactical Aircraft.

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|------------------------|--|---------|----------------------------------|-----------------|--|---------------|
| Grand Total A B | | ļ | | | | |
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| n m g | | | | | | |
| Central USSR A B | | | | | | |
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| SW USSR A B | | | | | | |
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| IGF Poland A B | | | | | | |
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| n fi | | | | | | |
| SGF Hungary A B | | | | | | |
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| GSF ermany A B | | | | | | |
| Germany A B | | | | | | |
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| Ground and Air Units | Divisions Motorized Rifle Category II Category III Tank Category II Category II Category II Category II Category II Alrborne (Category I) | Corps | Armics Combined Arms Teni: | Potential Front | Tactical Air Armies Old Model Fighters Old Model Lt. Bmors. Current Model Figs. Current Model Lt. Bomber TF-1967 | |
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T-O-P S-E-C-R-E-T

III A2/III B2

SOVIET THEATER FORCES -- GEOGRAPHIC DISTRIBUTION -- MAG-1970

Alternate A: 120 Ground Divisions; Tactical Aircraft. Alternate B: Ground Divisions; Tactical Aircraft.

| Grand Total A B | | | | |
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| South USSR A B | | | | |
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| IW USSR A B | | | | |
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| n B | | | | |
| West USSR A B | | | | |
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| F and B | | | | |
| MGF Poland A B | | | | |
| · | | | | |
| ary B | | | | |
| SGF Hungary A B | | | | |
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| any B | | | | |
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| Unit | rle III III IIII Lego | ω | nies Zhtej Bal | |
| Air | tons torized Rifle category II category III category III category II category II category II category II category II category II category III | arra | ront r Arr 1 Fil | ٠ |
| and | ms rize lateg eteg eteg eteg | ined | al F Mode Mode ent | |
| Ground and Air Units | Divisions Motorized Rifle Category II Category III Tank Category II Category II Category II Category II Category II Airborne (Category III) | Corps. Armies Combined Arms Teank | Potential Front Tactical Air Arr Old Model Fife Old Model Lt. Current Model TF-1967 | |
| Gr | ä | CO W | Potential Front Tactical Air Armies Old Model Fighters Old Wodel Lt. Bmbre. Current Model Ftrs. TF-1967 | |
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TO-P S-E-C R-E-T

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|--|-----------------|-----------|-------------------------------|----------|---|----------------|---|------------------------------|---------------------|-----------------|--------------------------|----------------------------|---------------------|---------------|---------------------------|--------------------------|----------|----------------------|---------------------------|-------------------------------|-----------------------------|---------------|-------------------------------|-------------------|-----------------------------------|
| ES) | Mid- | 1970 | | | | | | | | | | | | | | | | | | | | | | | |
| III CLO TOTAL BY TYPE BY YEAR SHIPS/STRUNGTHS/(EXCLUDING BALLISTIC MISSILE SUBMARINES) | Md. | 1969 | | | ** | - | | | | | | | | | - | | | | | | ···· | | | | In presenting miduse ranges or ct |
| MISSILE | Mid- | 1,00 | | | | | | | | | | | | | | | | | - | | | | | | ਜ਼ |
| AR LLISTIC | 141d- | 1007 | | | | t-ve- | | | | | | | | | - | - | • | | | | | | ···· | - | |
| LY TYPE BY YEAR (EXCLUDING BALL | M.d. | | | | | | | - | | - | | | | | | | | | | | | | | | |
| LY TY. | 1 965 | | | | | | | | | | - | | | | | | | | • | | - | | | | - |
| III Cla TOTAL HPS/STRINGT | Mid- 1964 | | | | | | *************************************** | | | | | | | | | | | | | | | | | - | |
| III CL | Mid- 1963 | | | ******* | | | | | | | | | | | | | | | | | ~ | | | | |
| | M14- 1962 | | | | | | ··· | p | | | | | | | | | | - | | | - | | | | |
| IJAVN | Mid- 1/ 1961 | | | | | | , | | | | | | | | | | | | | | | | | | |
| SOVIET GENERAL PURPOSE | Units and Ships | Flotillas | Submarine Forces Divisions | Brigades | Nuclear Propelled Ships Cruise Missile . F | Torpedo Attack | Future Modet - ? | Diesel-Propelled, First Line | Old Model - W-Conv. | Current Model-J | Long Range, Torpedo-Z, F | Medium Range, Torpedo-W, R | Short Range, Torp M | Support Ships | Second Line Subs (Diesel) | Surface Forces Divisions | Brigades | Cruisers, First Line | Other Detharman mint line | Destroyer Escorts, First Line | Guided Missile Patrol Craft | Support Shins | Second Line Ships (all types) | Amphibiaus Forces | Landing Ships Landing Craft |

TOTAL SOVIET GENERAL PURPOSE MAVAL FORCES, AIR AUD COASTAL DEFENSE ELEMENTS --/STRENGTHS BY TYPE BY YEAR

Naval Air Forces 4/

Haval Air Regiments

BLINDER with AS-4 EADGER with AS-1 BI, LINDER BADGER

MALL Helicopter Units Medium Helicopters²/ Light Helicopters3 Light Bomber Units BEAGLE Patrol Units-1/ MALLOW MADGE

Coastal Defense Forces

(Brigades) Wissile Sites Launchers Note: Differentisse between ASM and other aircraft, tif possible. 2 names. 3, names. See Section IIIB3 for indication of aircraft models included in light and medium categories.

Same as 2/ Consider the question of whether an aircraft reserve is being maintained, or will be in the future. In presenting mid-year figures, use ranges or other indicators of uncertainty as appropriate.

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S-E-0-R-E-T

Other Air Elements

S-E-C-1 III-19

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R-E-T

SOVIET GENERAL PURPOSE HAVAL FORCES -- MISSILE INVENTORIES (Excluding Ballistic Missiles)

Missiles aboard ship, in unit, or with aircraft. Missiles in reserve. A: B:

111-20 . f. . MHd-1970 M44-1969 M. d. 1968 Md. 1967 Mfd-1966 M44-1965 1984 1984 Mdd-1963 M.d. 1962 Mid- 1/ 1961 In presenting mid-year figures, use ranges or other incitators of uncertainty as appropriate. Coastal Defense Missiles Air-To-Sur ace Missiles Surface Ship Missiles Submarine Missiles SS-N-1 SS-N-2 SS-N-3 SA-N-1 SS-11-6 SS-CD-1 AS-1 AS-2 AS-4 Type T-0-P S-E-C-#-E-T

S-E-C-R-E-T

4--- vc.a

SOVER GENERAL PURPOSE NAVAL FORCES, SHIPS -- DEPLOYMENT/(EXCLUDING BALLISTIC MISSILE SUBMARINES) 1/

| | T-0-P S-E-0-R-E-T | H |
|--|---|---|
| | . III-21 | or other |
| Md. 1970 | | ranges cr |
| Teet | | use 1 |
| Pacific Fleet Mid- | | gures, as ap |
| Pa Mid- | | mid-year figures, use rang uncertainty as appropriate |
| ###################################### | | ing mid of unc |
| Sea Fleet Mid- 1967 | | presenting mid-year figures, use ranges adicators of uncertainty as appropriate |
| Black M1d- 1964 | | - 1 |
| M1d- 1970 | | |
| Baltic Fleet Mid- 1967 | | |
| Bal M1d- 1964 | | *************************************** |
| mid- 1970 | | |
| Northern Fleet Md- M | | |
| Nort Md- | | |
| Units and Ships | Fleets Submarine Forces Divisions Brigades Nuclaear-Propelled Ships Cruise Missile - E Torpedo Attack Old Model - W Future Model - ? Diesel-Propelled, First Line C Cruise Missile q Old Model - W-Conv. Current Model - W-Conv. Support Ships Second Line Subs (Diesel) Surface Forces Divisions Brigades Cruisers, First Line Missile Destroyers, First Line Other Destroyers, First Line Other Destroyer Escorts, First Line Guided Missile Patrol Craft Other Patrol Craft Support Ships | Second Line Ships (all types) Amphibious Forces Tranding Ships Landing Craft |

T-0-P S-E-C-R-E-T

SOVIET GENERAL PURPOSE NAVAL FORCES, AIR AND COASTAL METENSE ELEMENTS -- DEPLOYMENT DY TYPE BY YEAR $\overline{2}/$

| | 1 | | / | | |
|--|---|---------------------|--|---|---|
| | M1d- 1970 | | | | ı |
| 1 | Pacific Fleet Mid- 1967 | | | | |
| À | Pac Mid- 1964 | | | | |
| | nia- 1970 | | | | |
| | Black Sea Fleet - Mid- 4 1967 | | | | |
| | Blac Mid- 1964 | | | | |
| | Mid- 1970 | | | | |
| | Baltic Fleet Mid- 1967 | | | | |
| | Mid- 1964 | | | | |
| Company | Fleet Mid- 1970 | | | | |
| TUNUT TO | Northern Flaming Mid- | | | | |
| יייים זי חיייום | 1964 Ni d- | | | | |
| THE THERESE SERVICES TRANSPICTURES THE TOTAL PROPERTY OF THE P | Total Numbers of Units and Equipment | Haval Air Forces 4/ | Haval Air Regiments BAIGER BAIGER with AS-1 BAIGER with AS-2 BLIIDER BLIIDER with AS-3 | Other Air Elements Light Bomber Units BEAGLE Patrol Units 1/ MADGE MALLOW MAIL Helicopter Units 1/ Medium Helicopters 1/ Light Helicopters 1/ | Coastal Defense Forces (Brigades) Missile Sites Launchers |
| | | | T- | -OF S-E-0-R-E-T | |

Note: Differentiate between ASW and other aircraft, if possible. See Section IIIB3 for indication of aircraft models included in light and medium categories. Same as 2/Consider the question of whether an aircraft reserve is being maintained, or will be in the future. In probability mid-vest factors, use ranges or ther indications of uncertainty as emprompiate. 4 % w. * v.

T-O-P S-E-C-R-E-T

IIIC3. SOVIET GENERAL FURPOSE NAVAL FORCES -- CHARACTERISTICS AND PERFORMANCE

IIIC3a. Submarines

Basis: Table 6, Annex B, NTE 11-14-63

Delete SSB data. Add assumed characteristics for J and

N-Successor ships. Add characteristics for M. Review all

characteristics and indicate possible improvements and date

thereof. Add data on operating noise levels of

submerged submarines and likely improvements vs time, and

current and future reliability of Soviet nuclear submarines.

IIIC3b. Surface Ships

Basis: SIC Contribution to NTE 11-14-63 Review all characteristics and indicate possible improvements and dates thereof. .

IIIC3c. Aircraft

Basis: Pertinent portions of following tables:

Table 5, NIE 11-8-63

Table 5, Annex B, NIE 11-14-63

Table 12, NIE 11-4-63

Delete non-naval aircraft types. Review all characteristics and indicate possible improvements and dates thereof, including / non-combat attribion rates,

Review BADGER performance.

IIIC3d. Naval Missiles

Basis: Table 2, Annex B, NIE 11-14-63

Add data on naval ASM's from Table 4, NIE 11-8-63.

Review all characteristics and indicate possible *x

TOP S-E-O-R-E-T

TOD SECRET

Improvements and dates thereof, including accuracy and reliability.

IIIC3e. ASW

Review pertinent paragraphs of NIE 11-14-63. Please contribute data or text on performance characteristics of key ASW gear, ships, and weapons.

IV-24 TOP SECRET SOVIET GEHERAL PURPOSE HAVAL FORCES -- ALTERNATE HUCLEAR LOADLINGS 1/

| 1 | Alternate 1 Desig. 2/ Yld Date | Alternate 2 Desig. 2/ Yld Date | Alternate 3 Desig. 2/ Yld Date | Alternate 4 Desig. 2/Yld Date | Alternate 5 Desig. 2/ Yld Date |
|---|-----------------------------------|--|--------------------------------|----------------------------------|-----------------------------------|
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1. For total weapons available for general purpose naval forces through the period, see Section V.
2. Use standard JAEIC designators.
3. We believe that Secause of its primary anti-shipping role, SS-N-3 is probably equipped with warheads in the low kiloton range.

TO-P S-F-O-R-E-T

T-O-F S-E-C-R-E-T

IIIC4. SOVIET GENERAL PURPOSE NAVAL FORCES -- POSSIBLE POSSIBLE ADVANCED WEAPONS AND EQUIPMENT

(Note: Discuss any possible advanced weapons systems which might become operational with the fleet by mid-1970 which have not been explicitly estimated in existing NTE's.

If possible, assume characteristics and performance, factors affecting operational date, and/rate of entry into operational units).

T-OP S-K-C-R-E-T

IV. COMMAND, GENERAL SUPPORT, AND R&D

Definition

- 1. In addition to the strategic attack, air and missile defense, and general purpose forces, major portions of the Soviet military establishment perform other functions which we term military command, general support, and R&D. In general, the personnel and activities performing these functions comprise the following:
 - a. Ministry of Defense staffs;
 - b. Staffs and activities related to mobilization and induction, support of the reservist and retirement programs, and support of paramilitary and civil defense activities.
 - c. Staffs of service schools and personnel in training at these schools, including those in preoperational flight training.
 - d. Centrally controlled supply, medical, transportation and signal troops.
 - e. Military personnel and facilities engaged in research, development, test and evaluation.
- 2. Because no combat elements are involved, the IAP contains no detailed tables on Soviet military command, general support and R&D. However, the personnel and costs associated with these activities are listed separately in the sections on military manpower and military expenditures. The following DOD concepts are generally comparable: General Support, Retired Fay, Civil Defense, Reserve and National Guard Forces, and Research and Development.

TOP SECRET

3. In the IAP, the Soviet activities included in military R&D are much broader in scope than the US activities included in the comparable DOD concept, in that they include nuclear weapons development (the responsibility of the AEC in the US) and all space activities (many of which are NASA's responsibility in the US). The principal reason for this difference is that our information has thus for proved insufficient to provide any detailed breakdown of Soviet military military-related R&D programs, but there is in fact some evidence to suggest that in the USSR all these R&D activities are grouped together for budgeting purposes.

Note to Contributors

4. No contributions are necessary, but see tables calling for personnel figures in Section VI.

T-0-P S-E-C-R-E-T

T-O-P S-E-C-R-E-T

SOVIET V./ NUCLEAR WEAPONS ALLOCATIONS

Note to Contributors

- 1. This major section will be divided into three major subsections. The first will present summary data on present and future Soviet fission and thermonuclear weapons through the paper, and will indicate which delivery systems they are likely to be associated with. Improvements in nuclear weapons should be limited to those which could be achieved without atmospheric testing (see the draft FOREWORD of the IAP).
- 2. The second subsection will summarize the quantities of fissionable materials available for weapons use in the USSR by mid-years through 1970. together with a statement of the margins of uncertainty in these quantitative projection. projections.
- 3. The third subsection will comprise alternative allocations of nuclear weapons, among the major Soviet force components and subcomponents described in earlier sections of the IAP. We propose to consider three general alternatives as follows: (a) very heavy emphasis on nuclear weapons for strategic attack forces; (b) increased emphasis on nuclear weapons for air and missile defense forces, including requirements for an extensive ABM deployment program; (c) lesser emphasis on both the above forces and the consequent implications for general purpose forces.
- 4. JAEIC is requested to provide contributions to the first two subsections, and also to provide a contribution on the technical factors likely to influence the feasible rates of fabrication and stockpiling of nuclear weapons (e.g. times required to bring new weapons into stockpile, times required to achieve quantity production, problems associated with refabrication of nuclear materials from older weapons, etc.).
- 5. No contributions are required for the third subsection, which can be drafted by ONE on the basis of the JAEIC contribution and the contribution and the contribution are required for the third subsection, which can be drafted by ONE on the basis of the JAEIC contribution and the contribution are required for the third subsection, which can be drafted by ONE on the basis of the JAEIC contribution and the contribution are required for the third subsection, which can be drafted by ONE on the basis of the JAEIC contribution and the contributions are required for the third subsection, which can be drafted by ONE on the basis of the JAEIC contribution and the contribution are required for the third subsection.

5. No contributions are required for the third subsection, which can be drafted by ONE on the basis of the JAEIC contribution and the contributions to earlier sections of the IAP. A sample of the proposed alternative allocations tables is included in the TR's.

VA 1. SOVIET NUCLEAR WEAPONS AND ASSOCIATE DELIVERY SYSTEMS

VA la. SOVIET FISSION WEAPONS

Basis: Table I. NIE 11-2-63. Review and up-date data. Indicate possible changes through mid-1970 assuming continuance of current restrictions on nuclear testing.

VA 1b. SOVIET THERMONUCLEAR WEAPONS

Basis: Table II NIE 11-2-63: Review and up-date data.

Indicate possible changes through mid-1970

assuming continuance of current restrictions
on nuclear testing.

VA 2a. NUCLEAR WARHEADS ASSOCIATED WITH SOVIET MISSILES

Basis: Table III, NIE 11-2-63. Review and up-date data Indicate possible changes through mid-1970.

Add data for "Follow-on ICBM's." "Follow-on MRBM/IRBM's", SS-CD-1 (naval coastal defense), SA-3, SA-N-1 (naval SAM), and ABM's.

VA 2b. NUCLEAR WARNEADS ASSOCIATED WITH

SELECTED SOVIET AIRCRAFT AND NAVAL DELIVERY SYSTEMS

Basis: A table with format similar to that of Table IV,

NIE 11-2-63, but summarizing all available weapons.

mather than merely those with maximum yields.

Indicate possible changes through mid-1970. Add

data for TF-1967, and for naval torpedoes, mines,
and depth-charges.

T-O-P S-E-P-R-E-T

Basis: Table VI, NIE 11-2-53. Review and up-date estimated data. Extend through mid-1970.

Provide short text or data to indicate current confidence in estimated production, margins of error, etc. Spell-out any assumptions fundamental to the projection.

- V 4 -

V Cl.

Mid-1964

Range No. Total Range No. Total of Ylds. Wpns. Yield of Ylds. Wpns. Yield

FORCE SUBCOMPONENT

Mid-1970
Range No. Total
of Ylds. Wpns. Yield

STRATEGIC OFFENSE
Rocket Forces
Very High Yield ICBM
Other ICBM
Other ICBM
MRBM/IRBM
Bombers
Very High Yield Bombs
Other Bombs
ASM's
ASM's
Submarine-Launched GM
Ballistic GM
Cruise GM
Cruise GM
Sub-Total
STRATEGIC DEFENSE

S-E-C-R-E-T

STRATEGIC DEFENSE SAM AAM

AAM ABM Sub-Total

GENERAL PURPOSE FORCES
Ground Forces
GF Ballistic GM
GF Cruise GM
GF FROG's & Arty.
MRBM/IRBM

T-9-P S-E-C-R-E-T

Tactical Air
Bombs
(others?)
Naval
ASM's
Cruise GM
Other
Sub-total FORCE SUBCOMPONENT Mid-1964
Range No. Total
of Ylds. Wpns. Yield Mid-1967 Range No. Total of Ylds. Wpns. Yield Mid-1970 Range No. Total of Ylds. Wpns. Yield

S-E-C-R-E-T

GRAND TOTAL

- V 6 -T-O-P S-E-C-R-E-T

VI. MILITARY MANPOWER

Note to Contributors

- 1. This section is divided into a summary table and detailed tables on selected components and subcomponents of the Soviet military establishment. The tables call for low and high manpower figures for each component and subcomponent -- these should reflect the ranges or alternatives submitted for the force projections in the earlier sections of the paper, as well as any uncertainties in manning levels
- 2. It is probable that for costing purposes, CIA/ORR will require manpower data in more detail than we call for in the IAP.

 .. This need has been met in the past by specific requests from CIA/ORR to individual contributors, and we propose that it be handled in the same way for the IAP costing.
- 3. Please note that for completeness we propose to include manpower figures on Soviet security forces, although we do not propose to add them into the total of military manpower.

- VI 1 -

VI A

PERSONNEL STRENGTH OF THE SOVIET MILITARY ESTABLISHMENT BY FORCE BY YEAR

| Naval Forces Surface Forces Afload Sub Forces Afload (excl.ball. Ashore Support Coastal Defense Naval Aviation | AAIr Forces Tactical Aviation Military Transport Aviation | GENERAL PURPOSE FORCES Ground Forces Divisional Force Combat Support Service Support | AIR AND MISSILE DEFENSE FORCES Anti-aircraft Missiles Anti-missile Missiles Anti-aircraft Artillery Fighter Aviation of Air Defense Control and Warning | STRATEGIC ATTACK FORCES Ground-launched Missiles Ballistic Missile Subs Long-Range Aviation |
|--|---|--|---|--|
| | | | <u></u> | Mid- 1961 Ho/Hi |
| | | | | M1d- 1962 Lo/H1 |
| | | | | M1d- 1963 Lo/H1 |
| | | | | Mid- 1964 Lo/H1 |
| | | | | M1d- 1965 Lo/H1 |
| | | | | Mid- 1966 Lo/Hi |
| | | | | M1d- 1967 Lo/H1 |
| | | | | M1d- 1968 Lo/H1 |
| | | | | Mid- 1969 Lo/H1 |
| - VI 2 | | T-0 P 3 | -E-C-R-E-T | M1d- 1970 Lo/H1 |

VI A. (conti.)

| | | Militarized Security Forces | TOTAL MILITARY MANPOWER | RESEARCH AND DEVELOPMENT | COMMAND AND GENERAL SUPPORT | |
|----|-------------|-----------------------------|-------------------------|--------------------------|-----------------------------|-----------------------|
| | | | | | | Mid- 1961 Lo/Hi |
| | | | | | | Mid- 1962 Lo/Hi |
| | | | | | | Mid- 1963 Lo/Hi |
| | | | | | | M1d- 1964 Lo/H1 |
| | | | | | | M1d- 1965 Lo/H1 |
| | | | | | | Mid- 1966 Lo/Hi |
| | | | | | | M1d- 1967 |
| | | | | | 111/011 | M1d- 1968 |
| | - | | | | TU/01 | M1d- 1969 |
| | | | | | PO/H1 | M1d- 1970 |
| S- | 3 - E-C- | R_E_п | 1 | | | |

VI B.

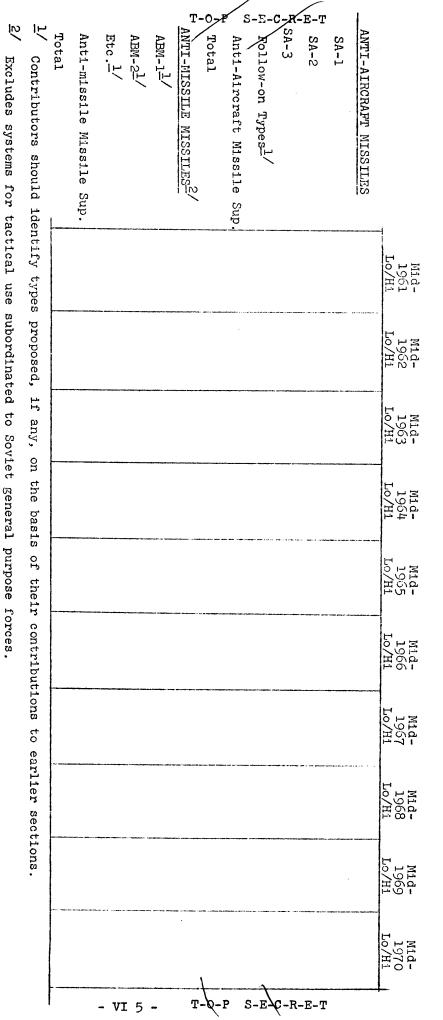
PERSONNEL STRENGTH OF THE SOVIET STRATEGIC ATTACK FORCES BY TYPE BY YEAR

| GRAND TOTAL PERSONNEL | BALLISTIC MISSILE SUBS Existing Conventional Types Existing Nuclear Types Follow-on Types Total Personnel | LONG RANGE AVIATION EXISTING Heavy Bomber Types Existing Med. Bomber Types Follow-on Bomber Types Long Range Aviation Support Total Personnel | Follow-on ICBM Types 1/ Follow-on ICBM Types 1/ Existing MRBM/IRBM Types 1/ Follow-on MRBM/IRBM Types 1/ Strategic Rock. Forces Sup. Total Personnel | GEOUND-LAUNCHED MISSILES |
|-----------------------|---|---|--|---------------------------------|
| | | | | Mid- 1961 Lo/Hi |
| | | | | M1d- 1962 |
| | | | | M1d- 1963 |
| | | | · | M1d- 1964 Lo/H1 |
| | | | | Mid- 1965 Lo/Hi |
| | | | | M1d- 1966 Lo/Hi |
| | | | | Mid- 1967 Lo/Hi |
| | | | | M1d- 1968 Lo/Hi |
| | | | | міd- 1969 L ь бині |
| - VI 1 | + - T-0- | P SaE-C-R-E | S-OR | Mid- 1970 Lo/Hi |

1/ Contributors should identify the types they propose, if any, on the basis of their contributions to earlier sections.

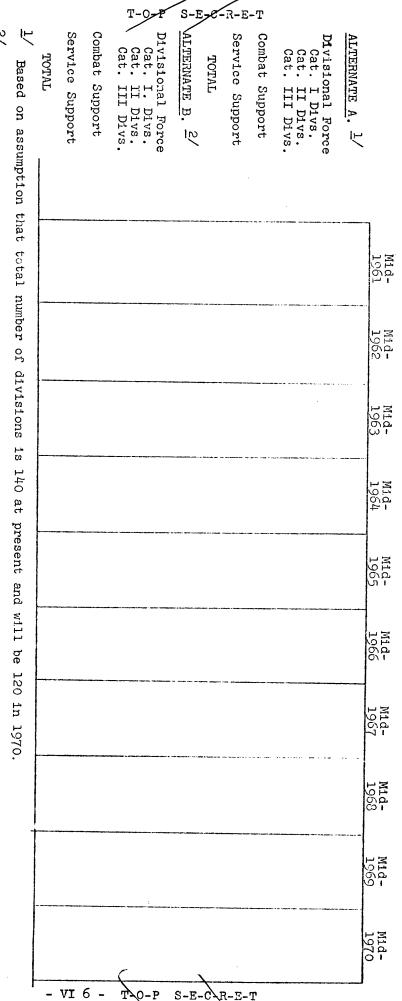
VI C.

PERSONNEL STRENGTH OF THE SOVIET PVO AND PRO MISSILE FORCES BY TYPE BY YEAR



VI D.

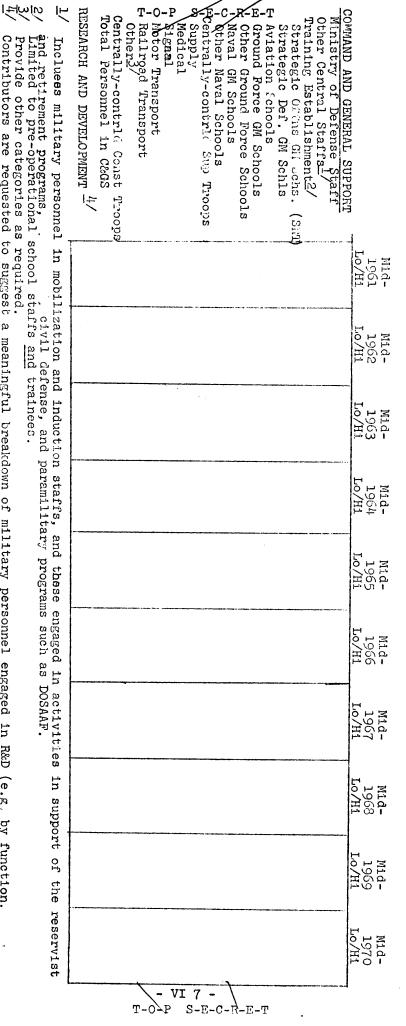
PERSONNEL STRENGTH OF THE SOVIET GENERAL PURPOSE GROUND FORCES BY TYPE BY YEAR



12 Based on assumption that total number of divisions is 110 at present and that Soviets will reduce total manpower intheater ground forces to about 1 million men by 1970.

VΙ Ħ

SOVIET MILITARY PERSONNEL PERFORMING COMMAND, GENERAL SUPPORT, AND R&D FUNCTIONS BY YEAR



Contributors are requested to suggest a meaningful breakdown of military personnel engaged in R&D (e.g. by subordination, or type of equipment under development). The figures for military personnel engaged in R&D those participating in the development of nuclear weapons and those participating in the space program. Provide other categories as required. by function, should include

VII. MILITARY EXPENDITURES

Note to Contributors

- 1. This section will comprise tables prepared by CIA/ORR after theother contributions have been received. During the time when the other contributions are in process, however, CIA/ORR is requested to prepare an introductory statement for this section, describing in general terms the methodology used to arrive at estimates of Soviet military costs, and adequacy of the evidence used to derive cost cost estimates, and the margins of uncertainty involved in the costing itself.
- 2. We propose to consider Six aspects of Soviet military expenditures in the IAP, for mid-1961 through mid-1970, as follows:
 - (a) Total expenditures by force component and and by category, in rubles by year.
 - (b) Total expenditures by force component and by category, in percentages by year, based on the ruble figures.
 - (c) Total expenditures by force component and by category, in dollars by year.
 - (d) Details of procurement expenditubes by force subcomponent, in rubles by year.
 - (e) Details of operating and maintenance expenditures by force subcomponent, in rubles by year.
 - (f) Details of personnel expenditures by force subcomponent, in rubles by year.
- 3. Sample mockups of a total expenditures table and a detailed table are included in these TR's.

VII A/B/C

TOTAL SOVIET MILITARY EXPENDITURES, BY FORCE COMPONENT AND BY CATEGORY BY YEAR

| TOTAL | rersonner Construction of Facilities Research and Development | Procurement Land Armaments Ships Aircraft Ground Electronics Missile Systems Nuclear Weapons Other Equipment Operations and Maintenance | Strategic Attack Forces Air and Missile Defense Forces General Furpose Forces Ground Air Naval Command and Gen. Support Reserach and Development TOTAL Militarized Security Forces | BY COMPONENT |
|-------|---|---|--|-----------------------|
| | | | | To/H1 1961 Mid- |
| | | | | Mid- 1962 Lo/Hi |
| | | | | Mid- 1963 Lo/Hi |
| | | | | Mid- 1964 Mid- |
| | | | | M1d- 1965 Lo/H1 |
| | | | | M1d- 1966 Lo/H1 |
| | | | | Mid- 1967 Lo/Hi |
| | | | | M1d- 1968 Lo/H1 |
| | | | | Mid- 1969 Lo/H1 |
| | | | | Mid- 1970 Lo/Hi |

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VII D/E/F

SOVIET MILITARY PROCUREMENT EXPENDITURES BY FORCE SUBCOMPONENT BY YEAR

| Naval Aviation Coastal Defense Nuclear Weapons | Air Forces Tactical Aviation Willtary Transport Aviation Notal Forces Sub Forces Affort (evol half) | GENERAL PURPOSE FORCES Ground Forces Divisional Force Combat Support Service Support | AIR AND MISSILE DEFENSE FORCES Anti-aircraft Missiles Anti-missile Missiles Anti-aircraft Artillery Fighter Aviation of Air Defense Control and Warning Nuclear Weapons | STRATEGIC ATTACK FORCES Ground-launched Missiles Eallistic Missile Subs Long Range Aviation Nuclear Weapons | |
|--|---|--|---|---|-------------------|
| | | | - | 10/11 | Mid- 1961 - |
| | | | | DO/111 | Mid- 1962 |
| | | | | 10/11. | Mid- 1963 |
| | | | | 10 / 11 | Mid- 1964 |
| | | | | 10/111 | M1d- 1965 |
| | | | | TO/111 | Mid- 1966 |
| | | | , | T0/H1 | Mid- 1967 |
| | | | | 10/H1 | M1d- 1968 |
| | | | | T0/H1 | Mid- |
| | | · · | \ | 1.0/H1 | M1d- 1970 |
| • | | T-0 | C-8-0- | 1 | |

VII D/E/F (conti.)

